

Fig. 3

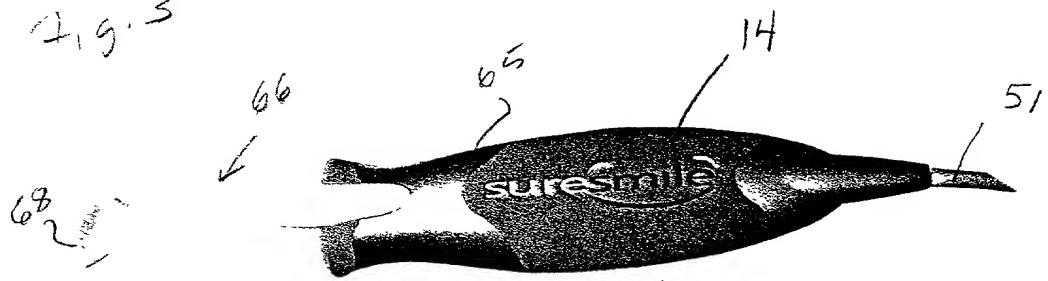
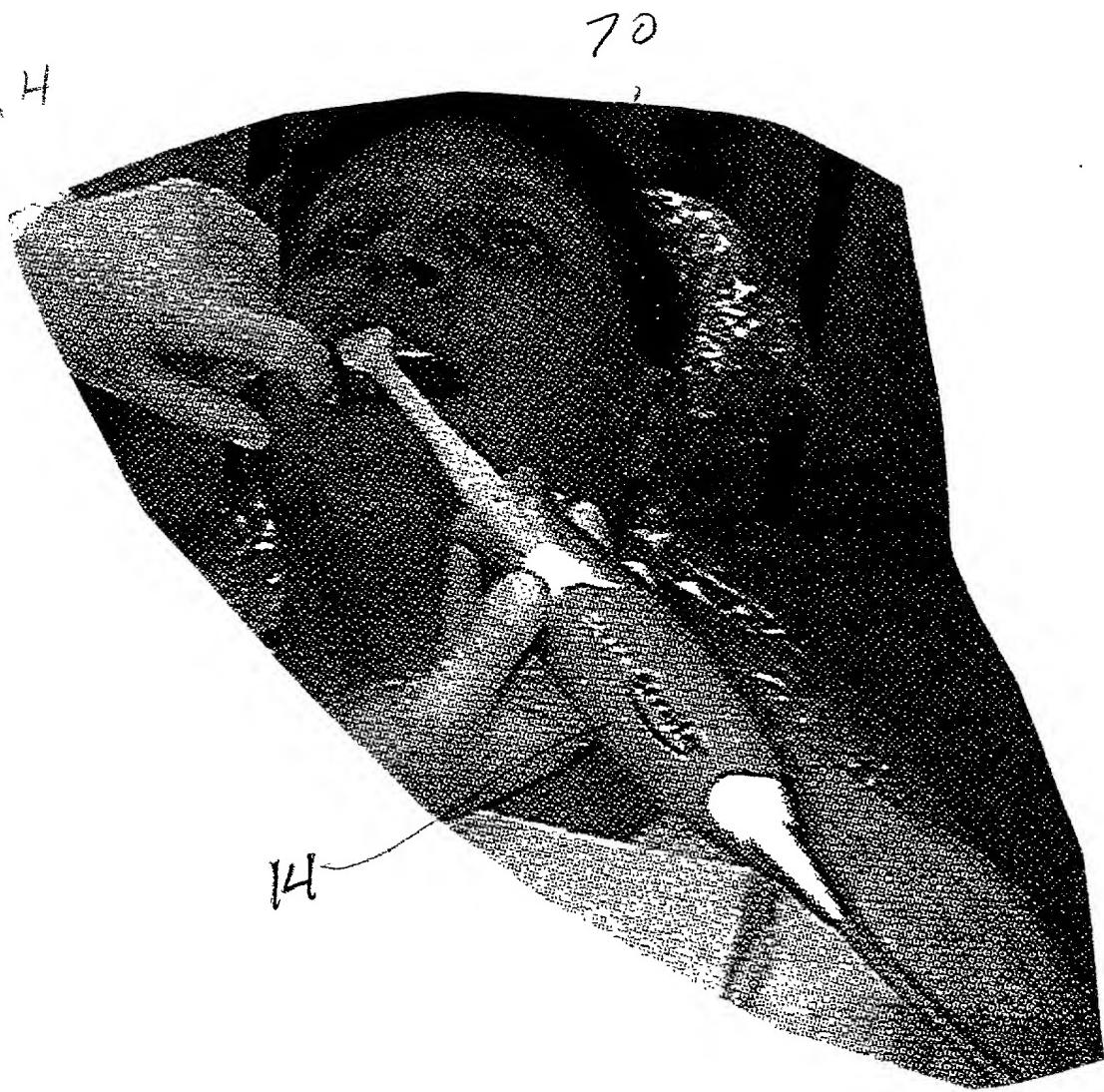


Fig. 4



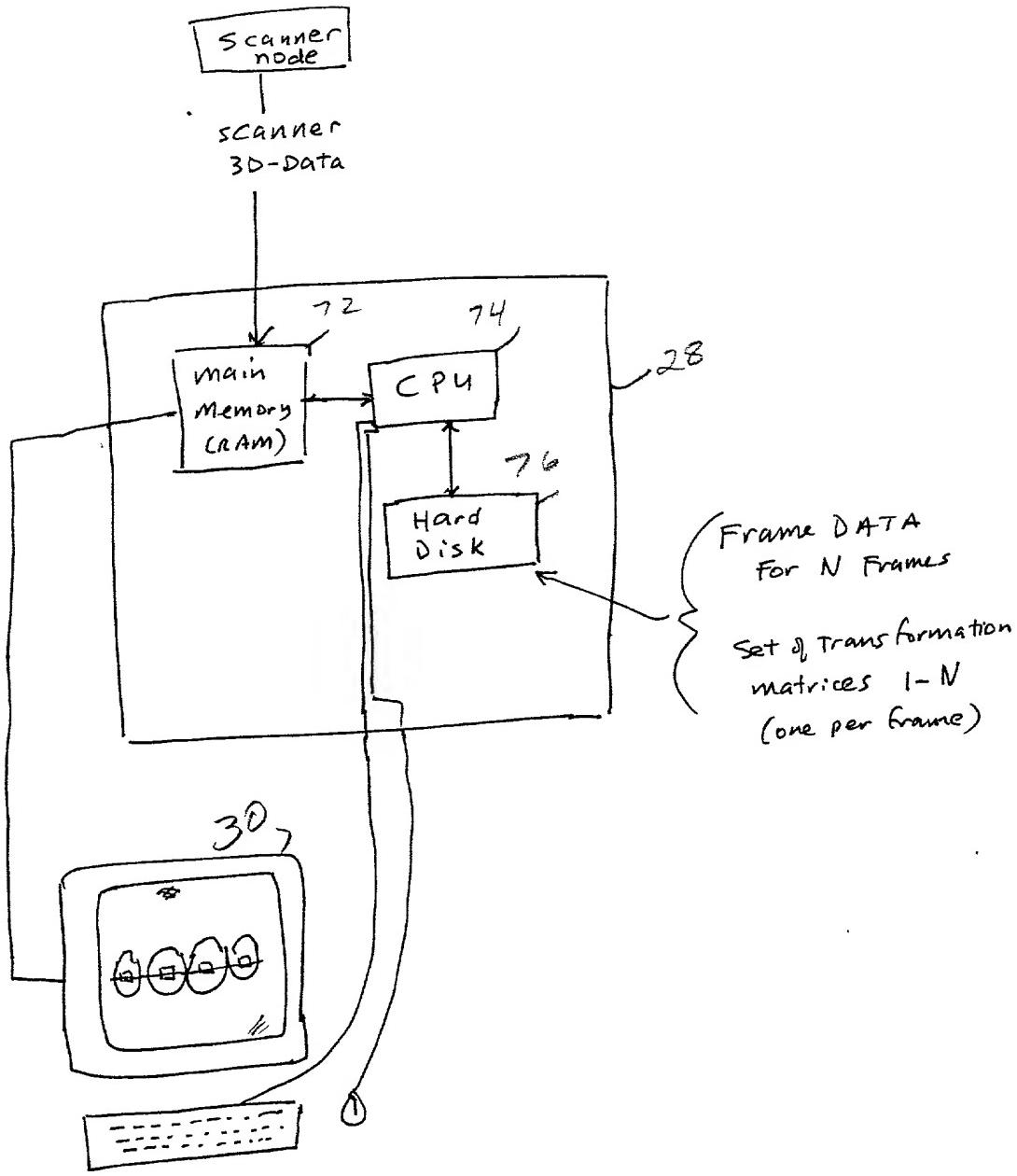


Fig. 5

3-Dimensional IMAGE CAPTURE (per frame)

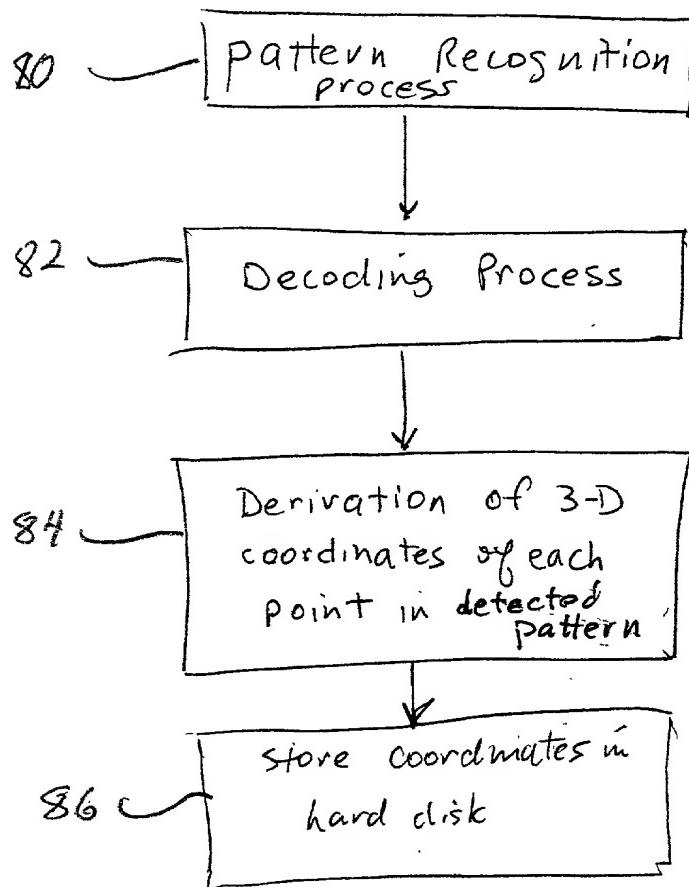


Fig. 6

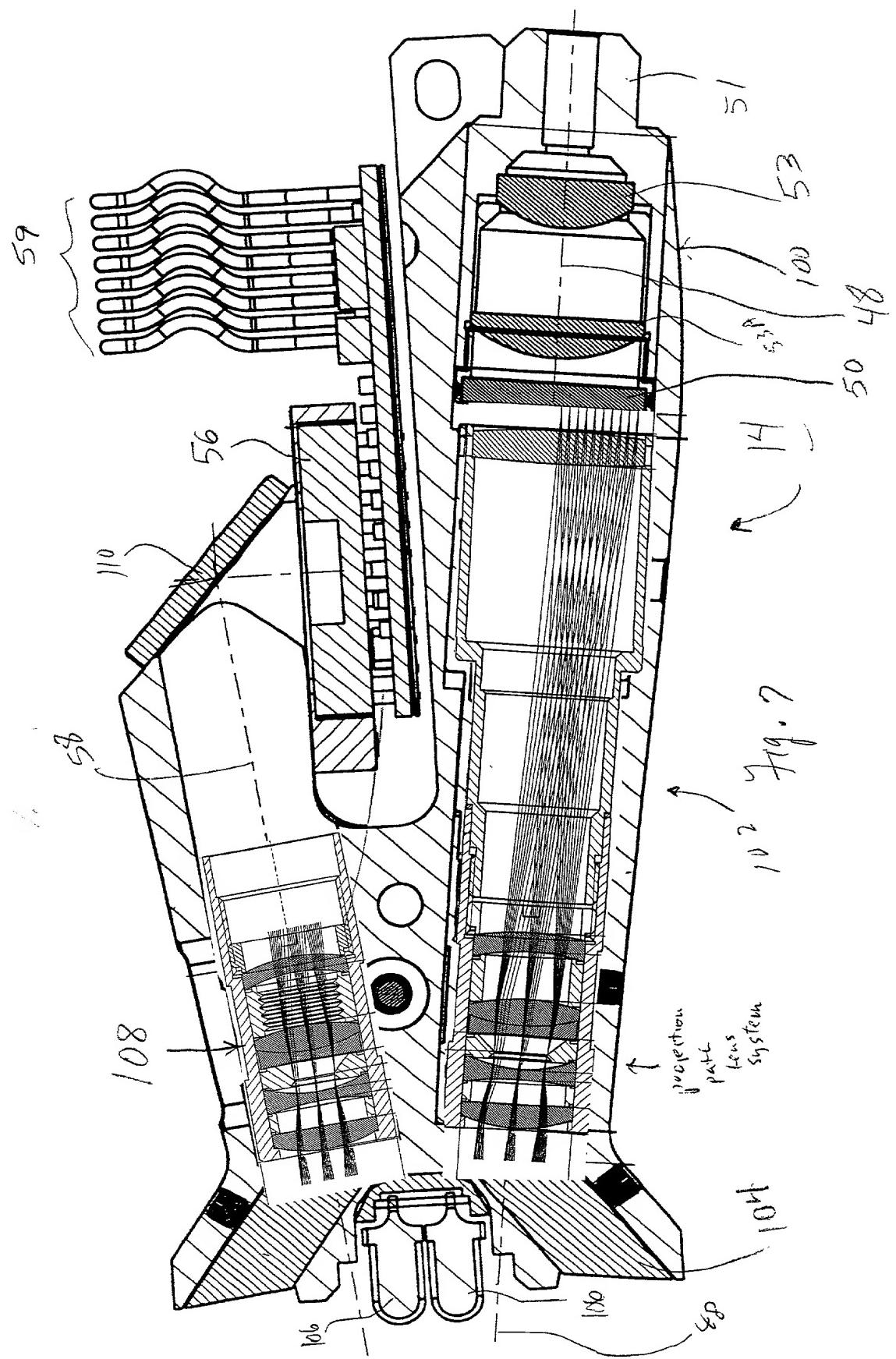
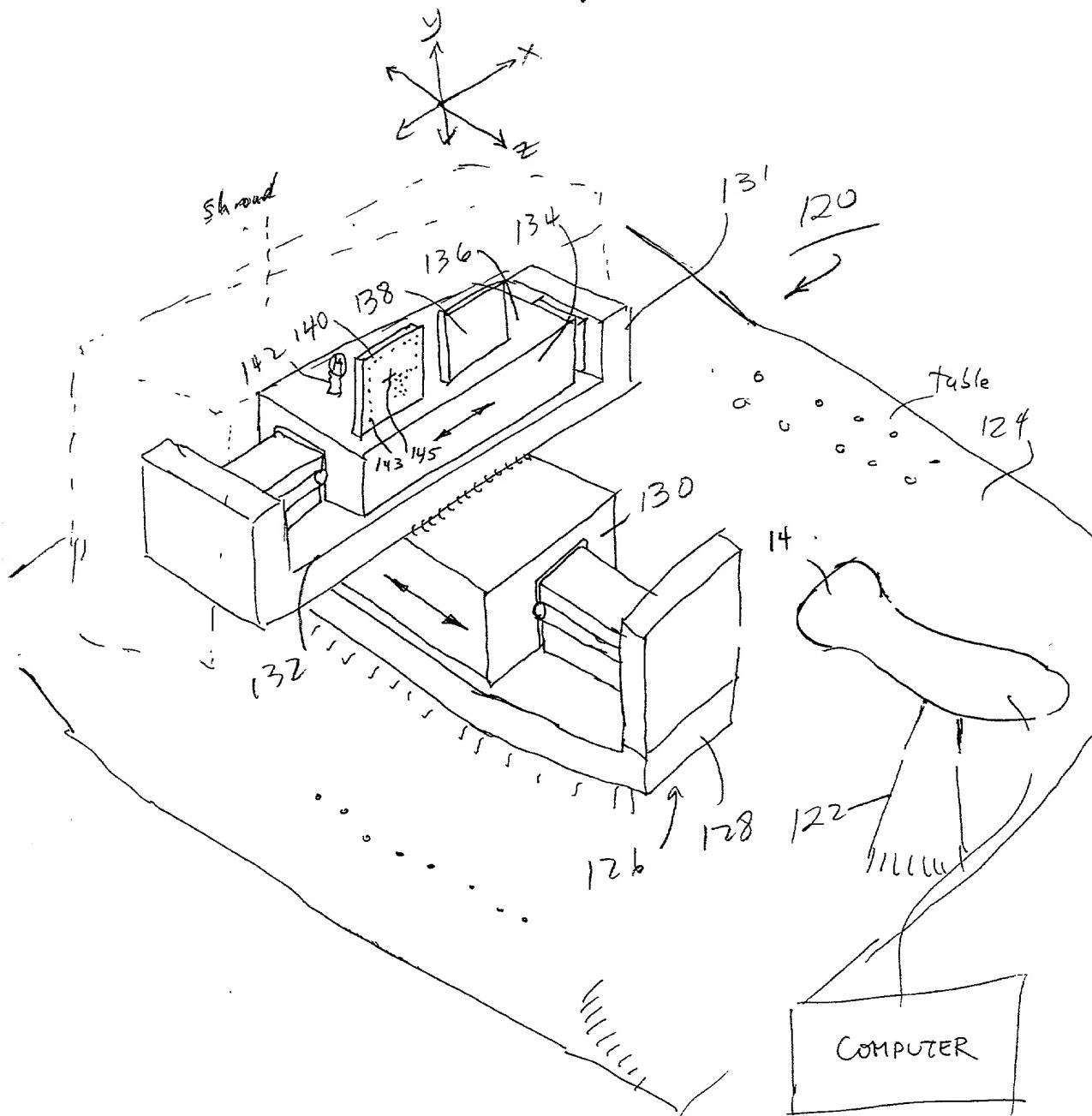


Fig. 8



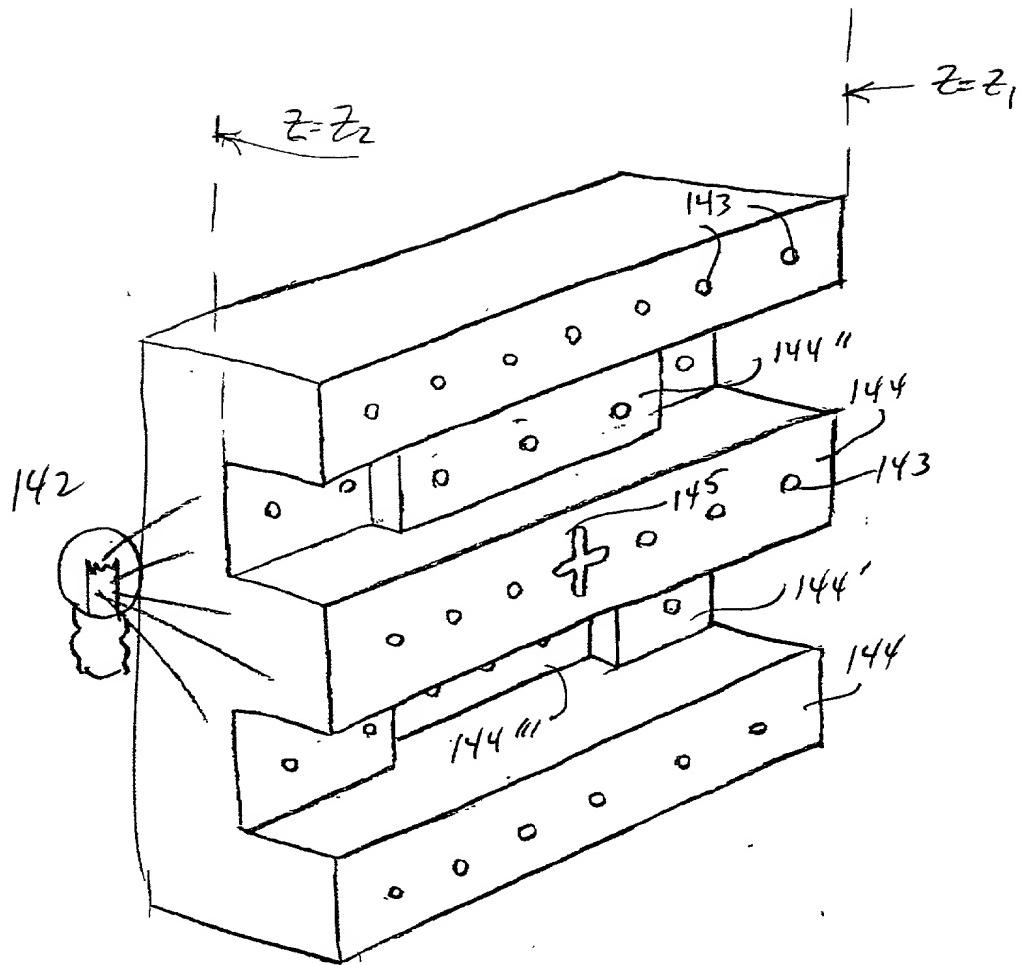


Fig. 8A

Fig. 9

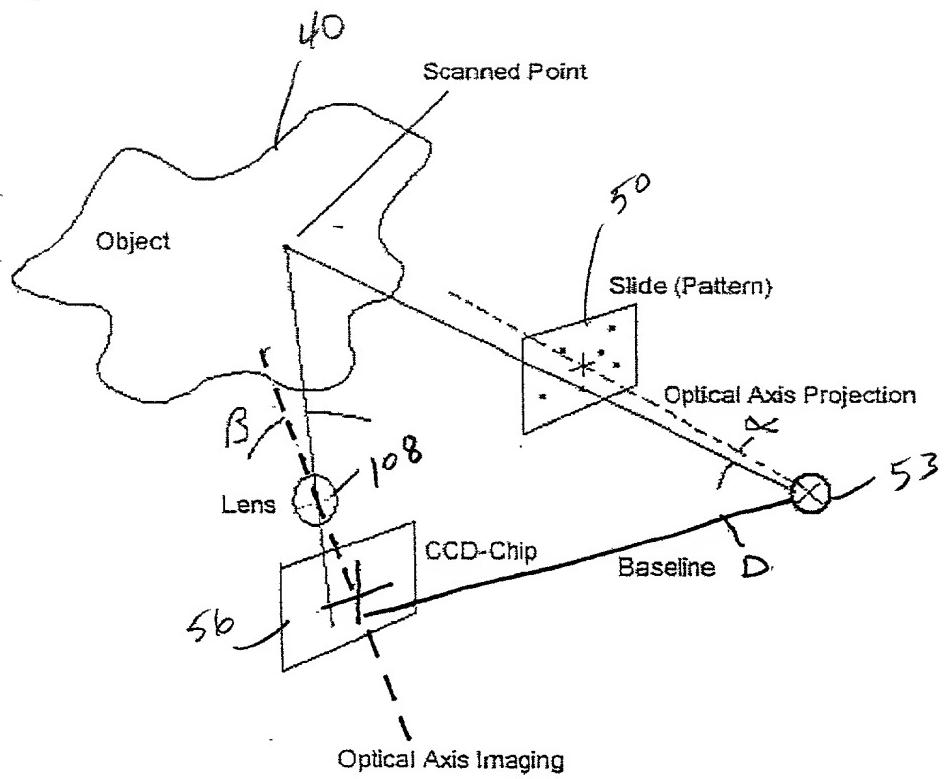


Fig. 9B

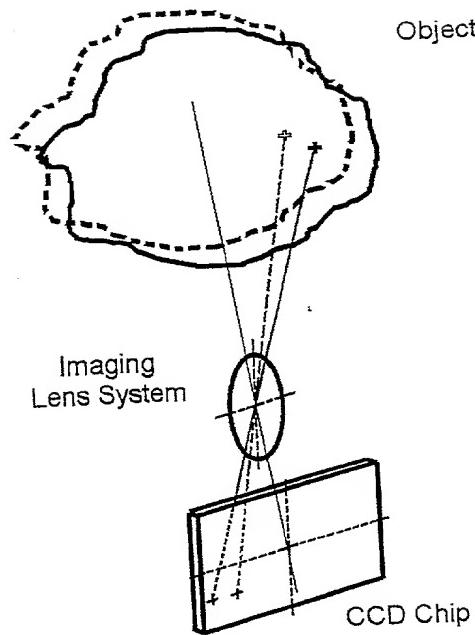


Fig. 9A

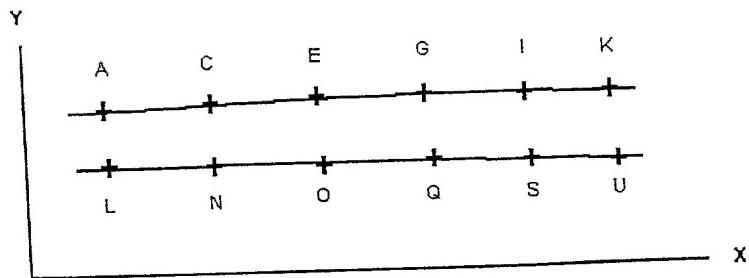
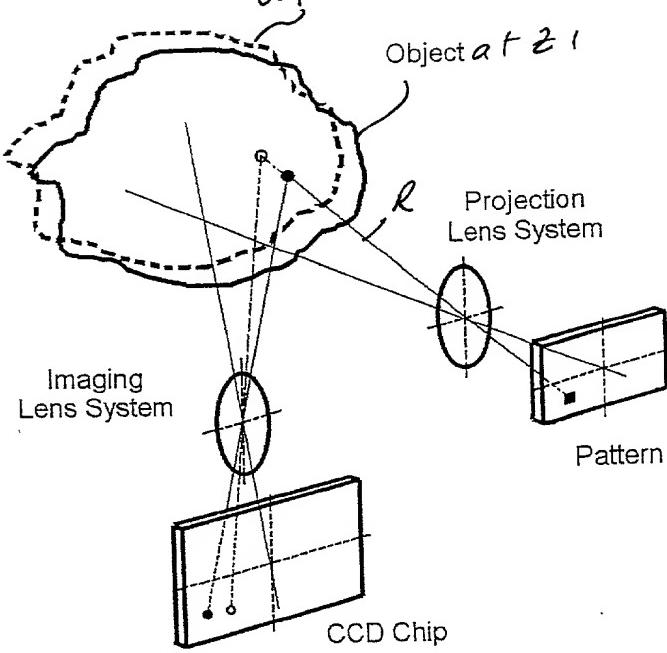
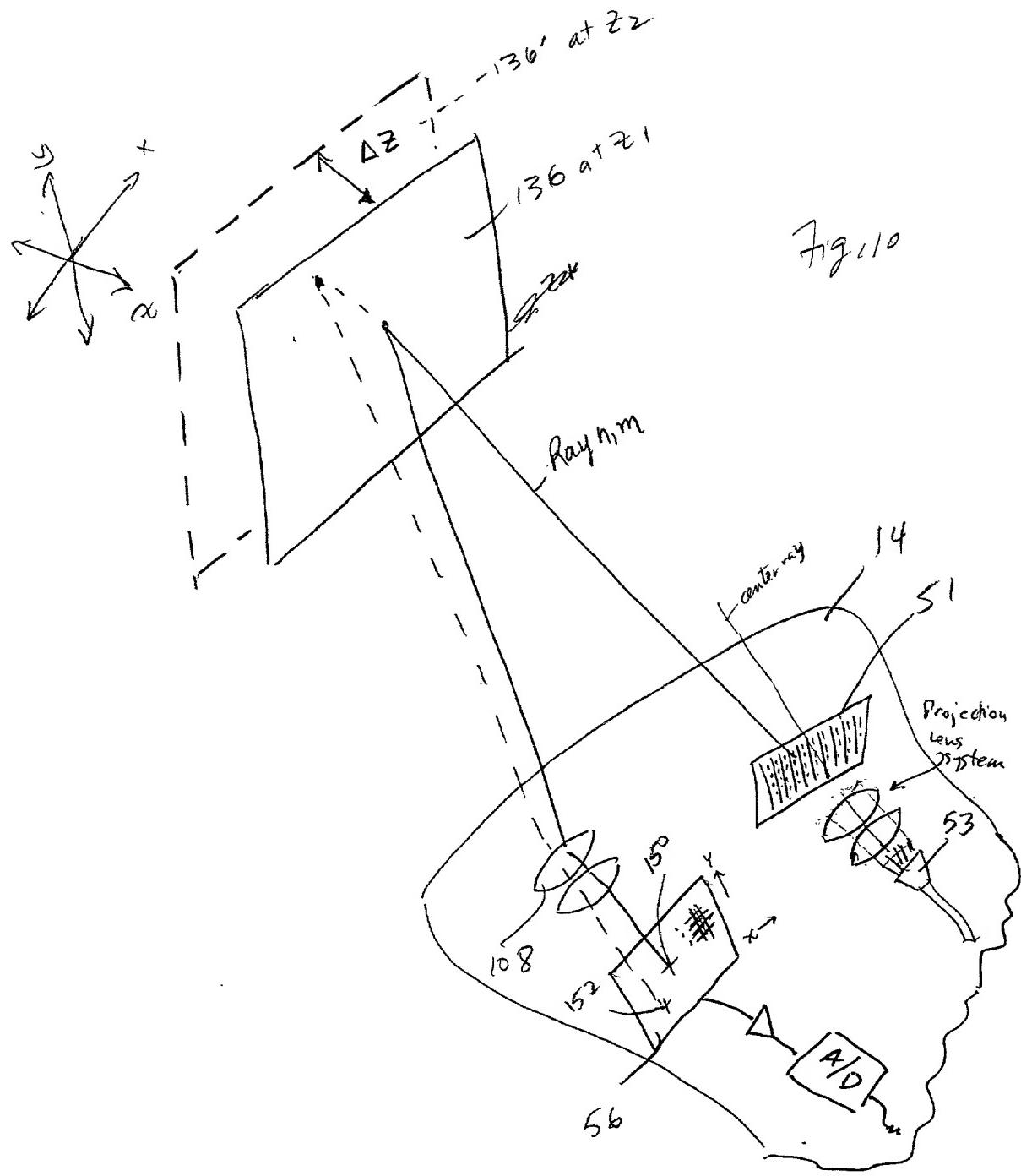


Fig. 9C

Pixel coordinates for portions of the pattern assigned to a certain Z-level



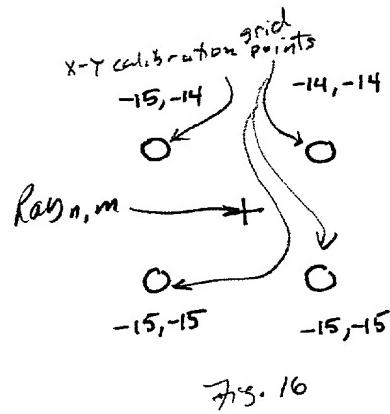
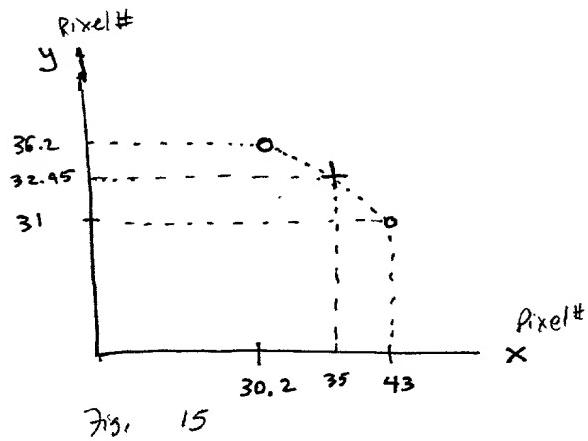
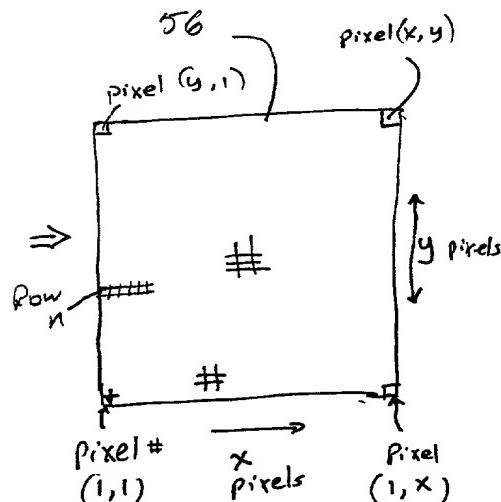
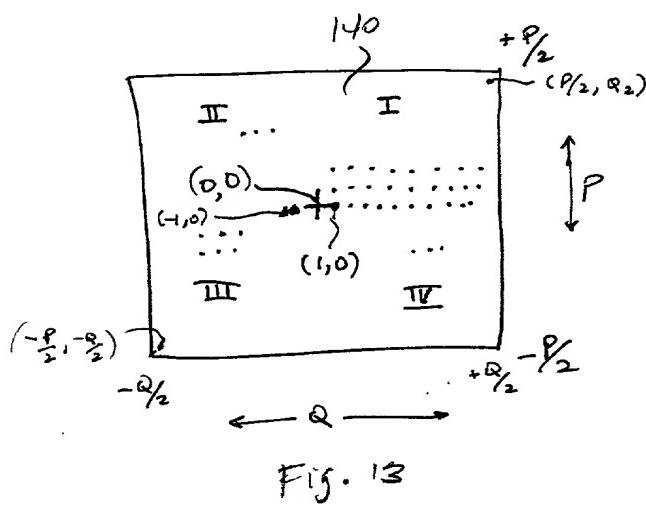
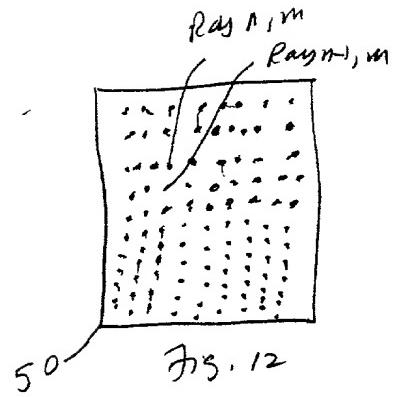
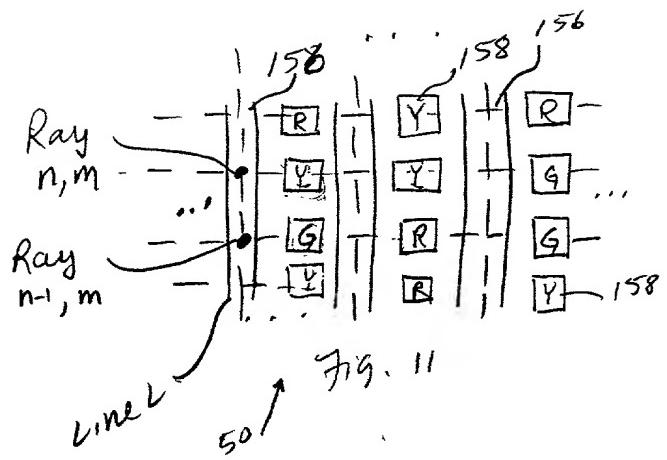


Fig. 17

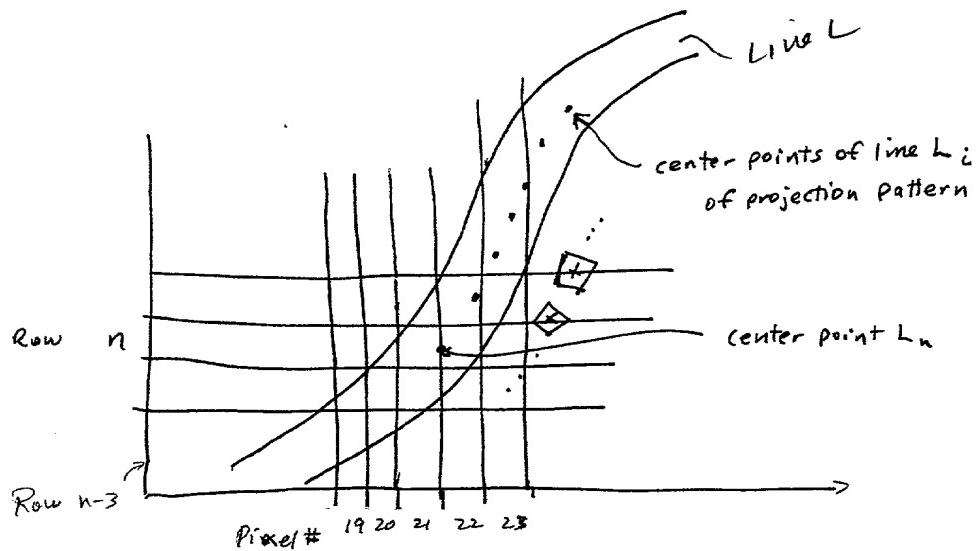
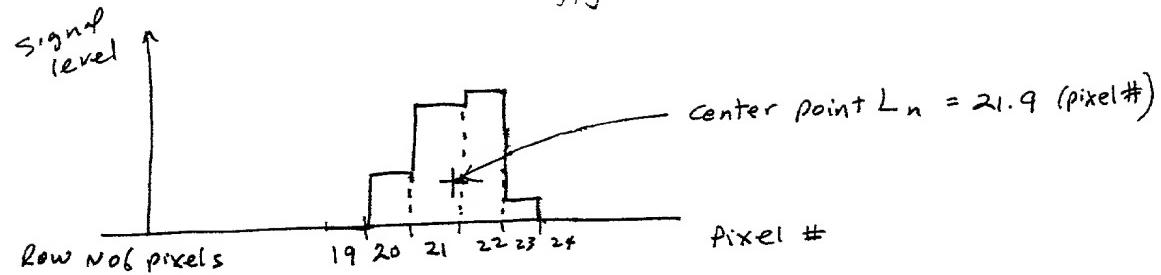


Fig. 18

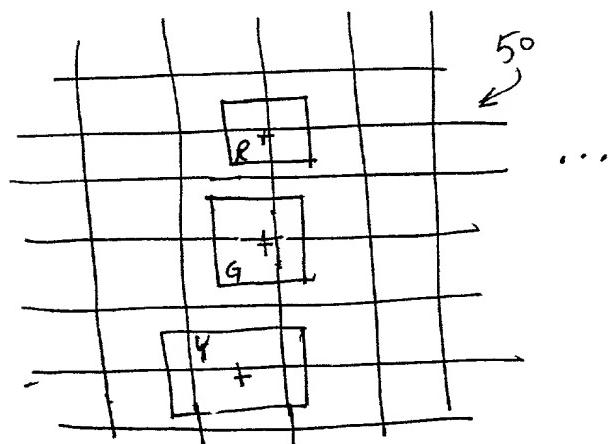
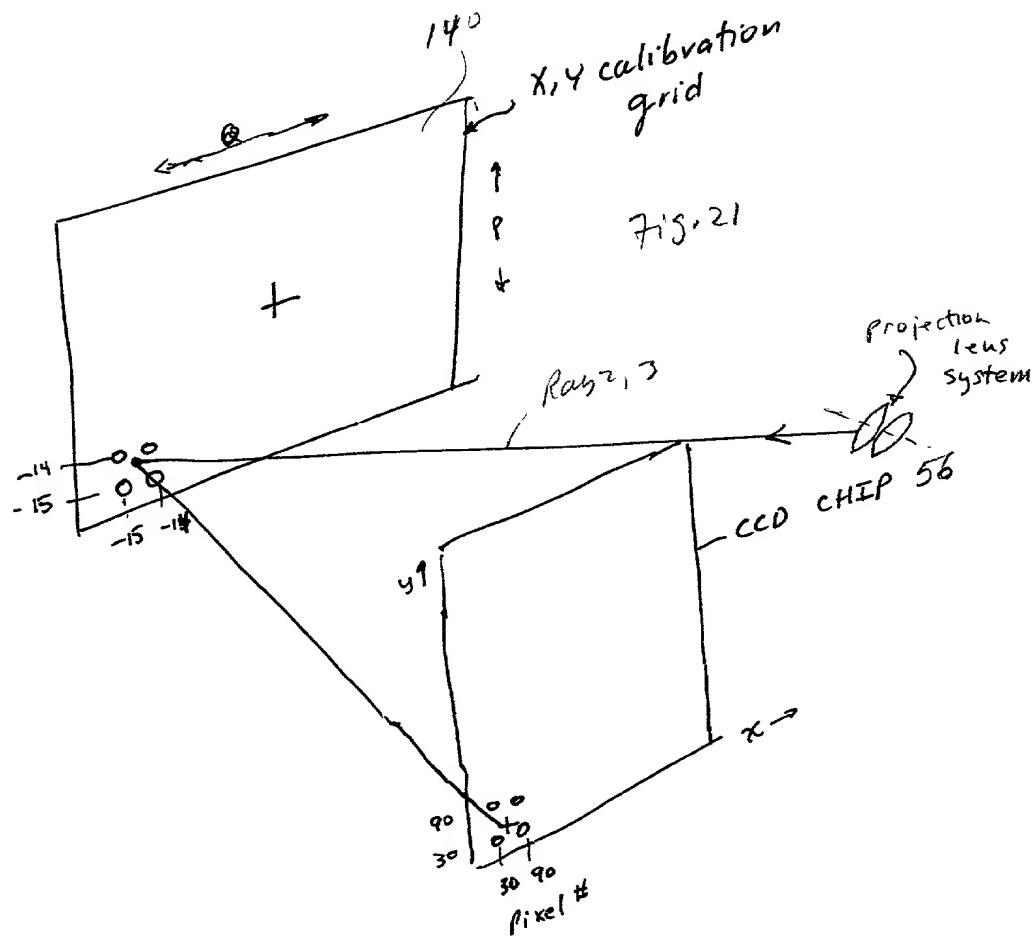
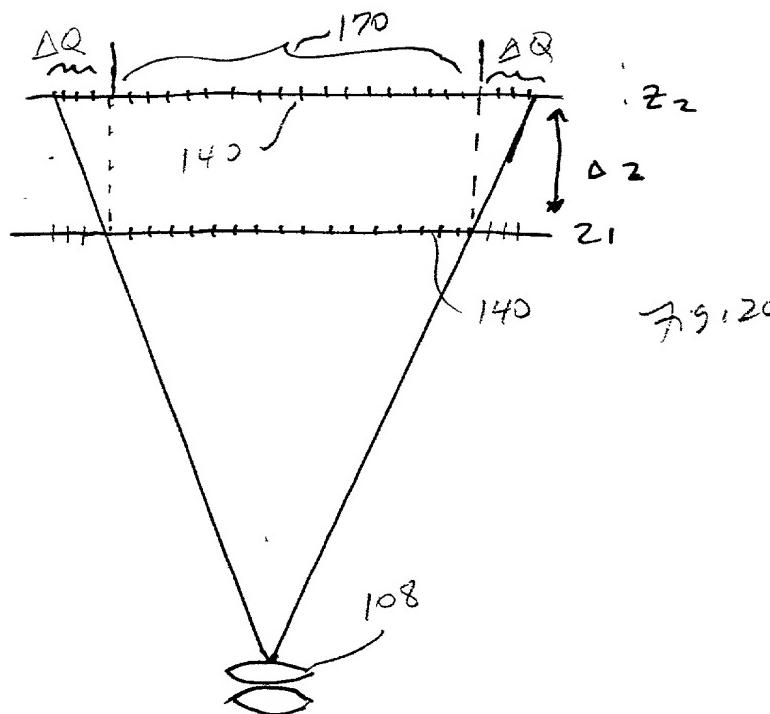


Fig. 19



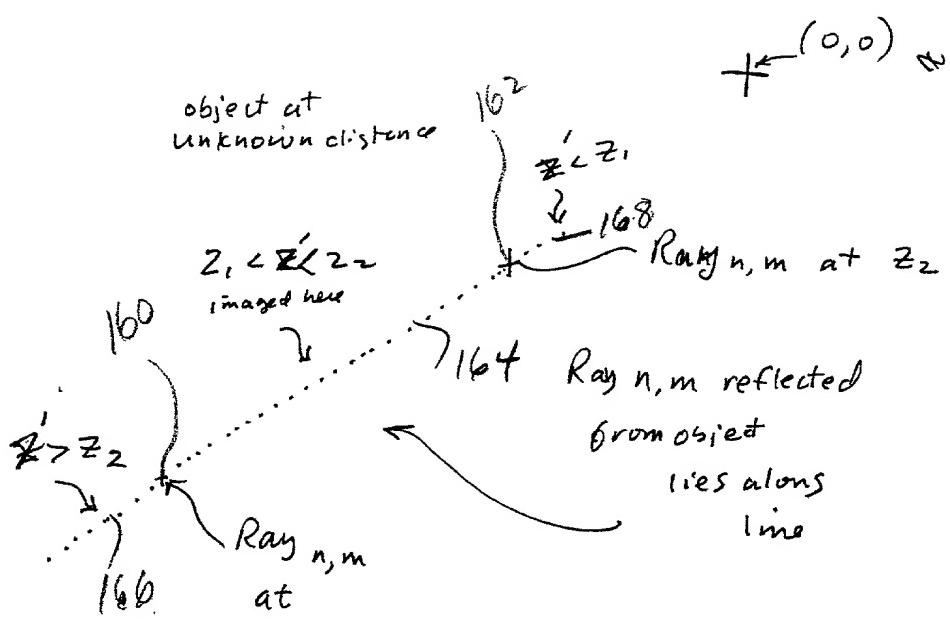
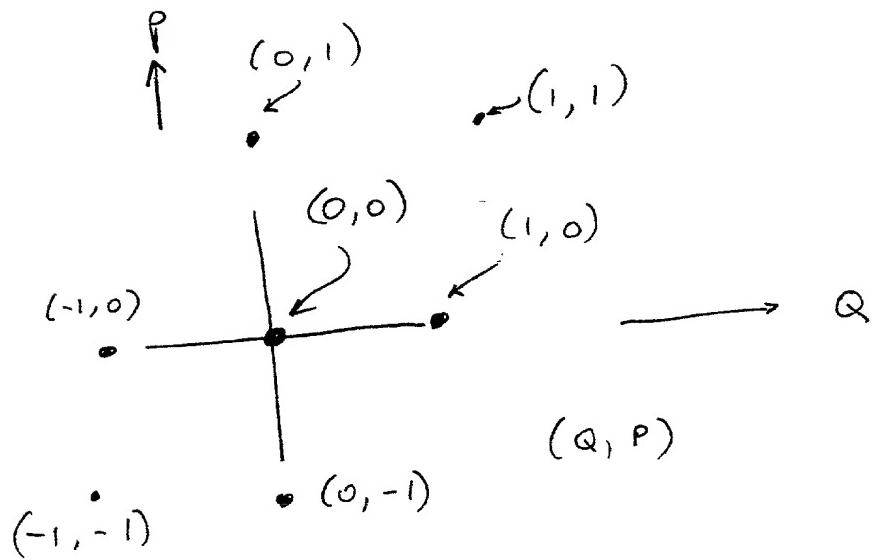


Fig. 22

Fig. 23



CCD x, CCD y = pixel #, in subpixel resolution

(३१४३६)

Calibration Table #1

Aug. 24

(Q, P)

Calibration Table #2

Quadrant I		Row 0		Row 1		Row 2		Row + P/2	
(0,0)	(1,0)	(2,0)	(3,0)	(0,1)	(1,1)	(2,1)	..	(0,2)	(1,2)
Z ₁	CCDX	640.1	700.2	760.6	820.5	..	..	640.1	700.2
	CCDY	640.1	640.1	640.3	640.4	..	..	701.2	761.5
Z ₂	CCDX	640.2	680.3	741.2	801.6	..	..	1,279.5	1,279.4
	CCDY	640.2	640.3	640.1	640.1	..	..	681.2	741.2
						640.2	..	680.9	..
							..	..	1,256.4
							..	..	1,257.5

Quadrant III

Row		Row 1		Row 2		Row + P/2	
Z ₁	CCDX	(-1,0)	(-2,0)	(-3,0)	(-4,0)	..	(-4,0)
	CCDY					..	
Z ₂	CCDX					..	
	CCDY					..	
						..	
						..	
						..	

Quadrant III

Z ₁	CCDX	(-1,-1)	(-2,-1)	(-3,-1)	(-4,-1)	..	..
	CCDY	==	==	==	==	..	..
Z ₂	CCDX	==	==	==	==	..	..
	CCDY	==	==	==	==	..	..
					
					
					

Quadrant IV

Fig, 25

$CCD_x, CCD_y = \text{pixel \#}, \text{insubpixel resolution}$

Fig. 26
(after)

Pattern Calibration Table #1

Pattern		Line 1				Line 2				Line N				
		Row 1	Row 2	Row 3	Row 4	... Row M	Row 1	Row 2	Row 3	Row 4	... Row M	Row 1	Row 2	... Row M
CCD_x	1.0	1.1	1.5	2.1	...		27.1	29.5	30.2	31.1				
mm distance											-14.6			
CCD_y	10.2	20.4	32.8	44.5	...		11.5	21.6	36.2	44				
mm distance											-14.4			
CCD_x	3.9	4.5	6.8	12.2			34.0	41.1	43.0	46				
mm dist.											-14.8			
CCD_y	12.1	21.5	30.4	46.3			13.2	21.8	31.0	48.2				
mm dist.											-15.8			

after

Fig. 28

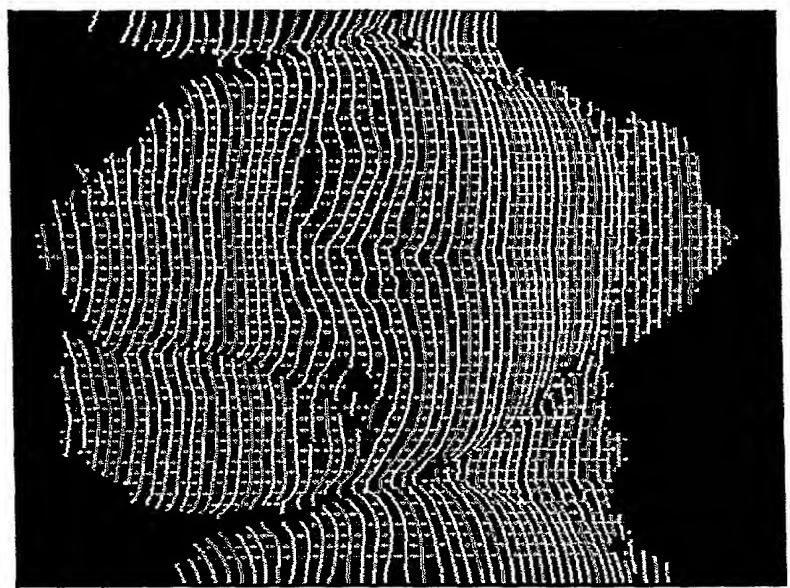
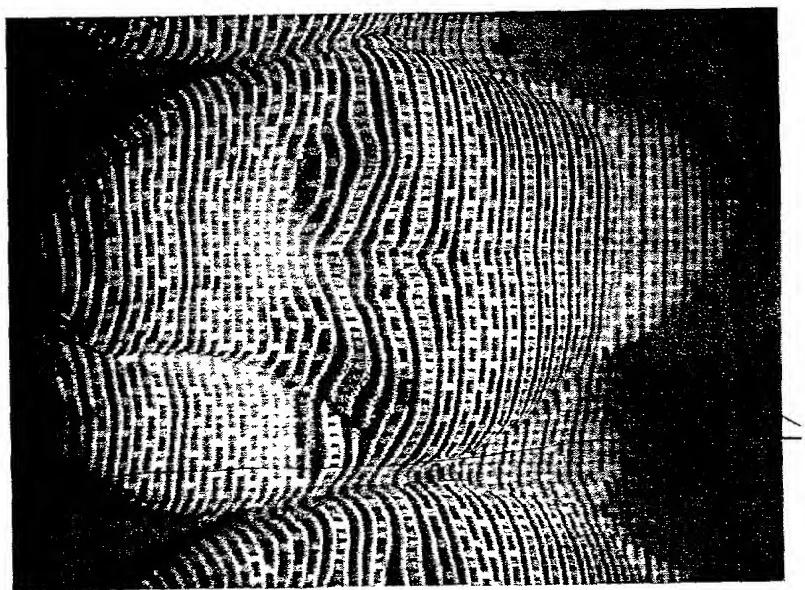


Fig. 28. A photograph of a diffraction pattern obtained by illuminating a slit with a beam of light.

Fig. 29



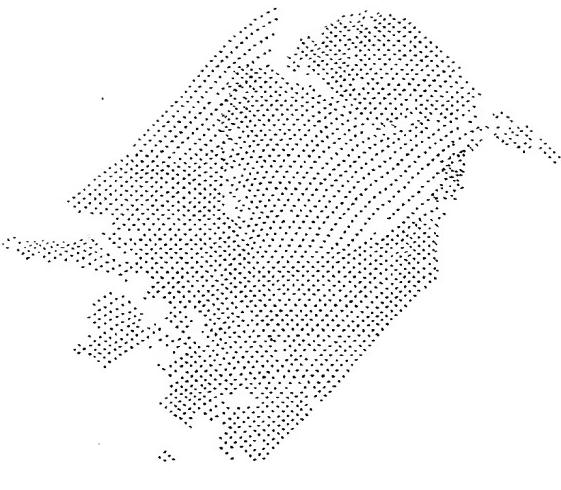


FIG. 29

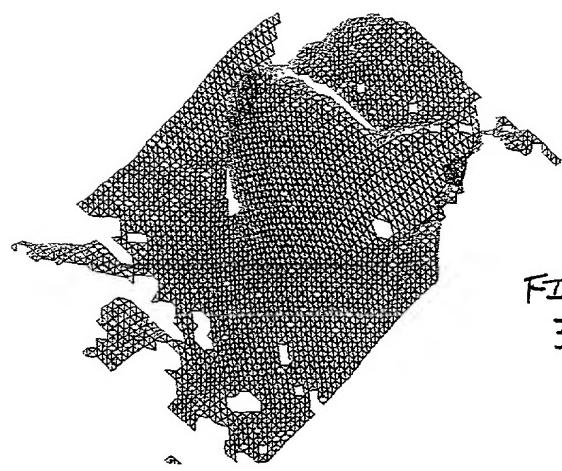


FIG.
30



FIG. 31



FIG. 32

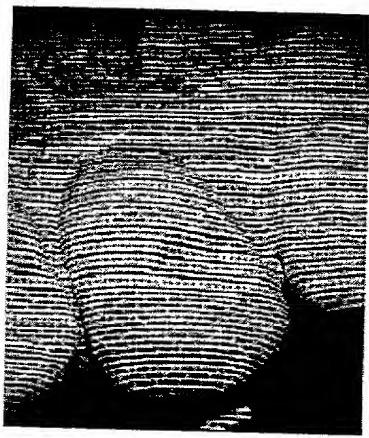


FIG. 33

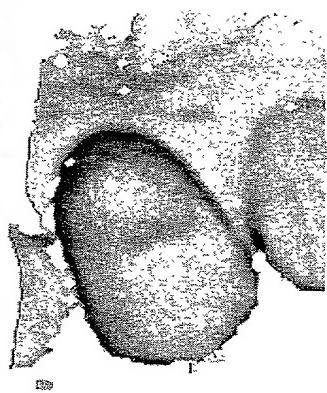


FIG. 34

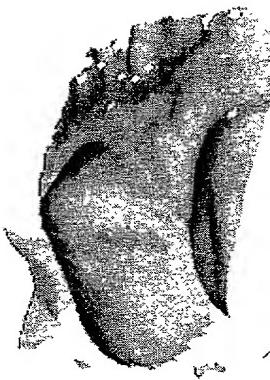
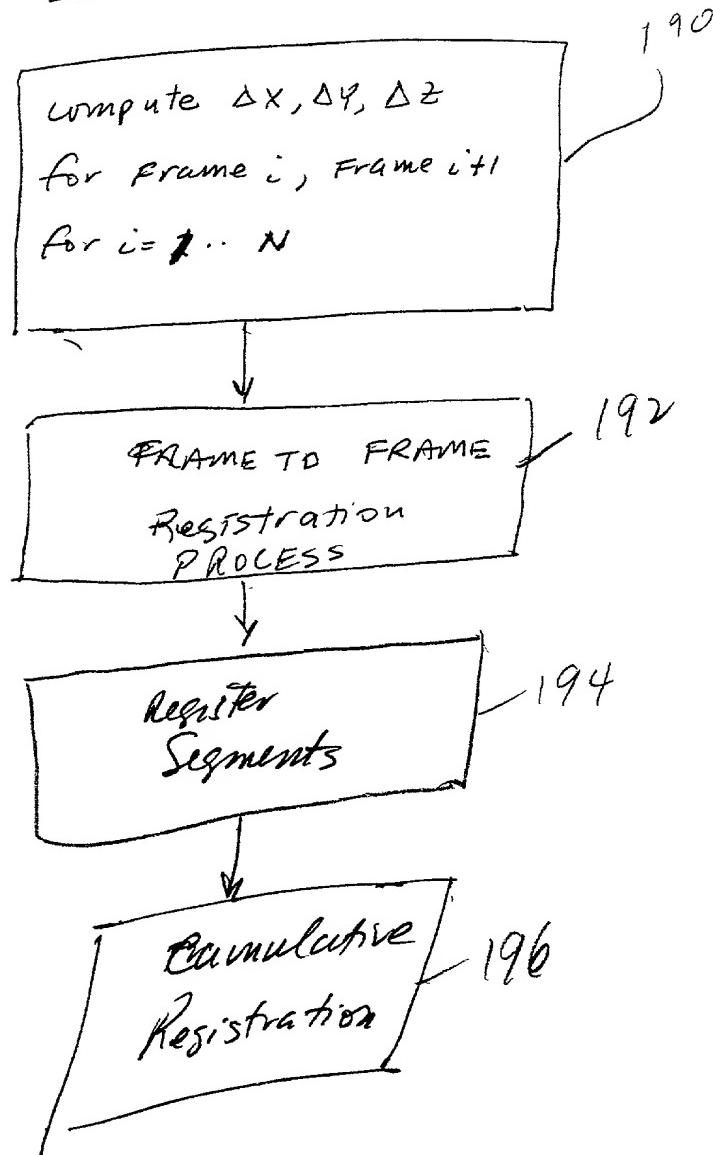


FIG.
35

Fig. 36

Registration



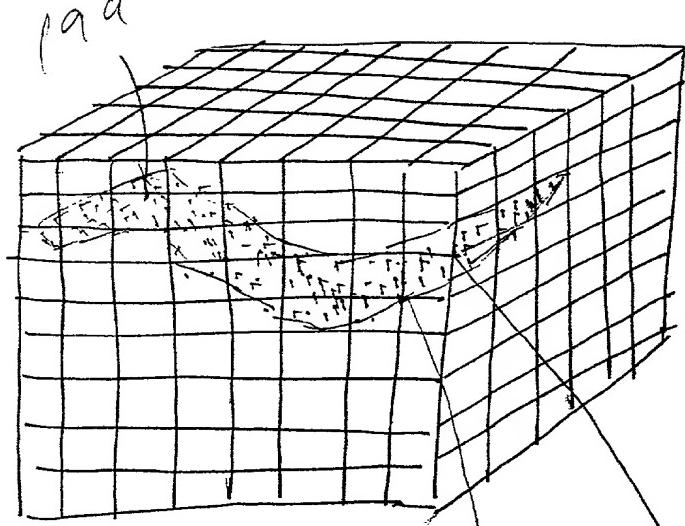
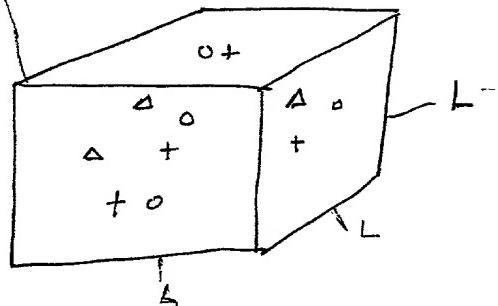


Fig 37A

Fig.
37B



$L = 1.0 \text{ mm}$

Δ = points of frame i

$+$ = points of frame $i+1$

\circ = points of frame $i+2$

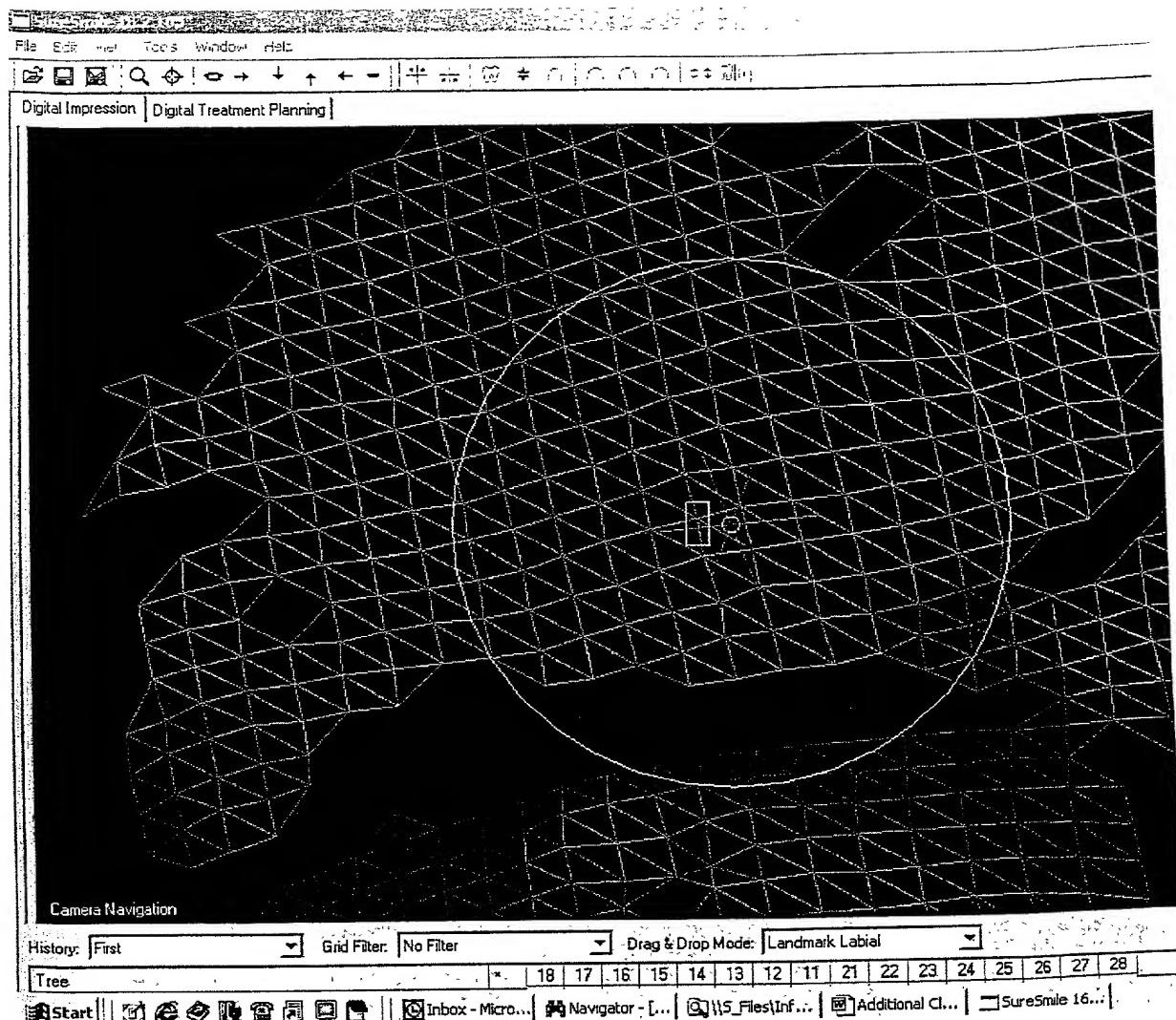


Figure 37c

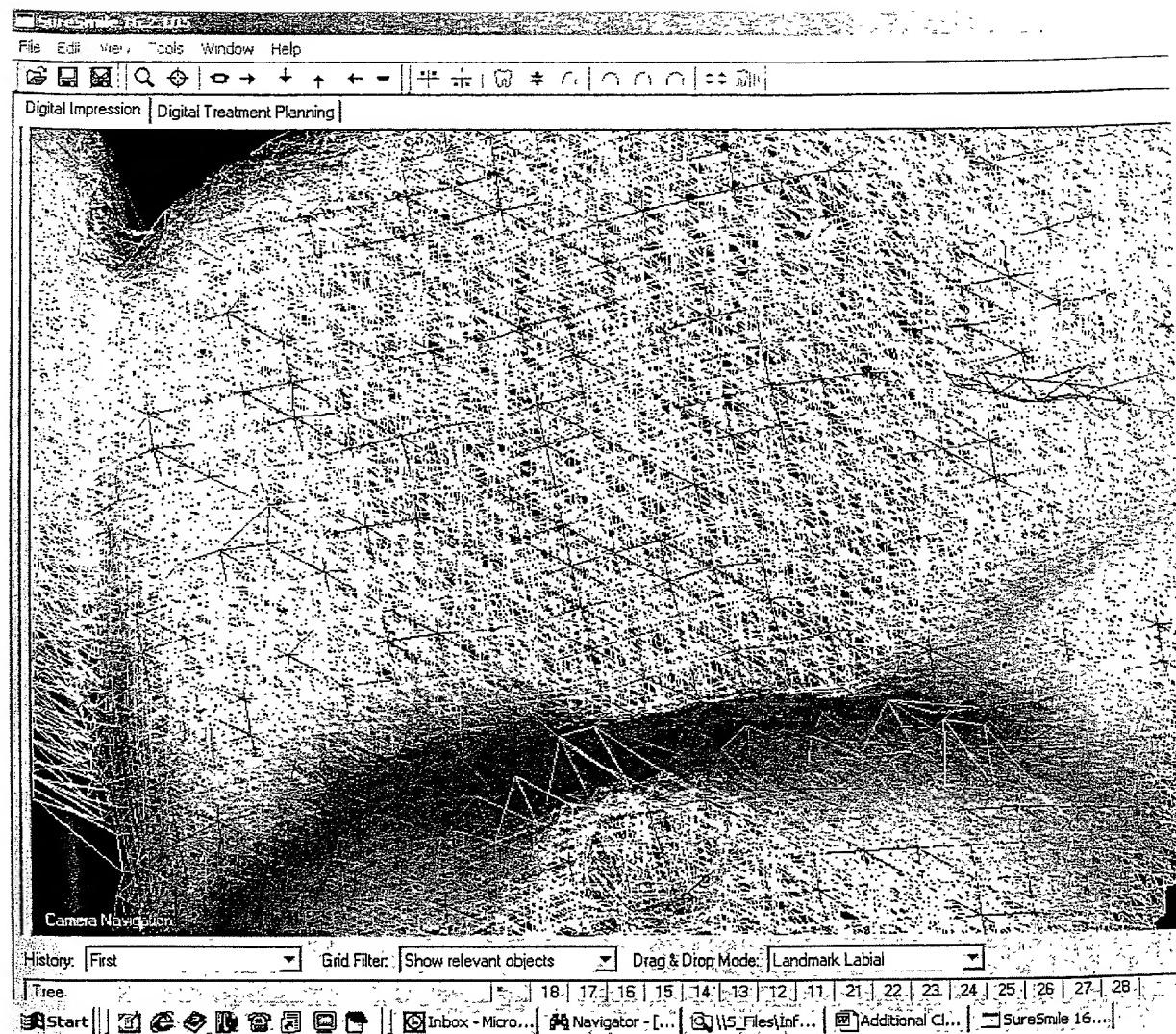
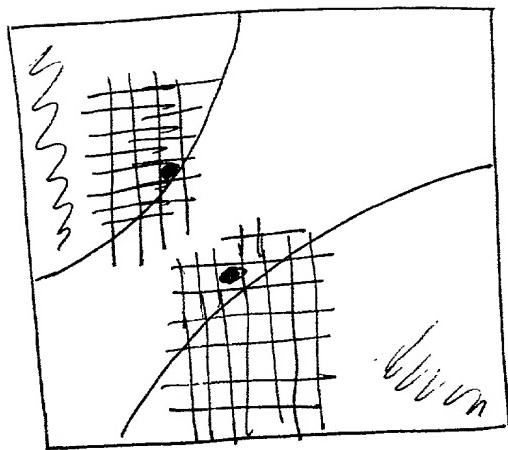


Fig-32 D



Frame i
Fig.
38A

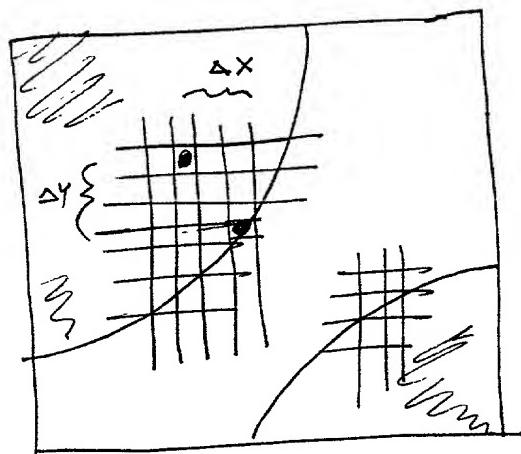


Fig. 38B

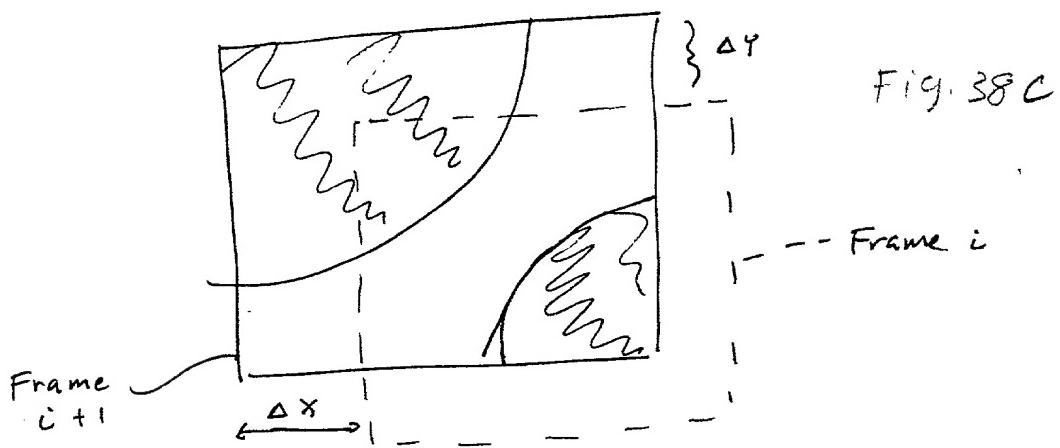
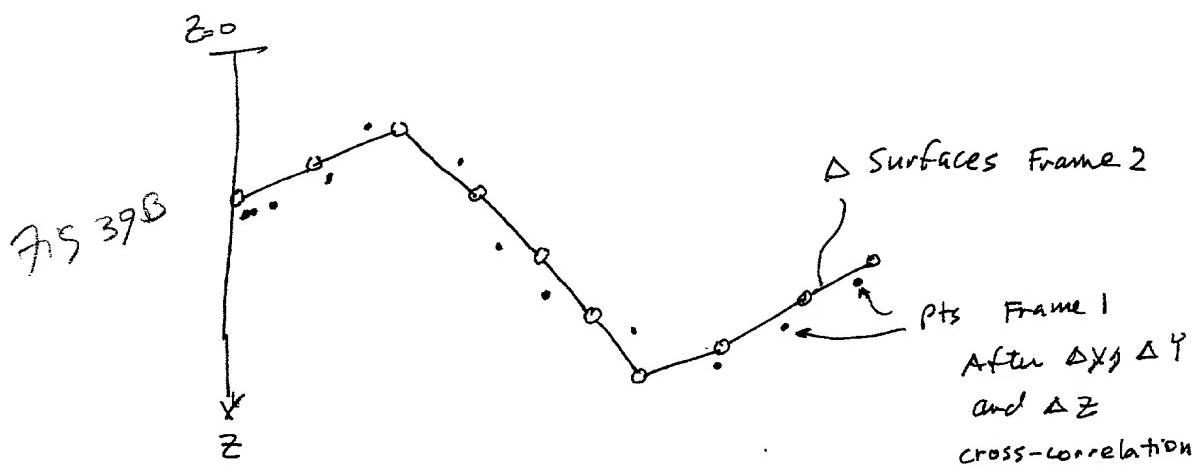
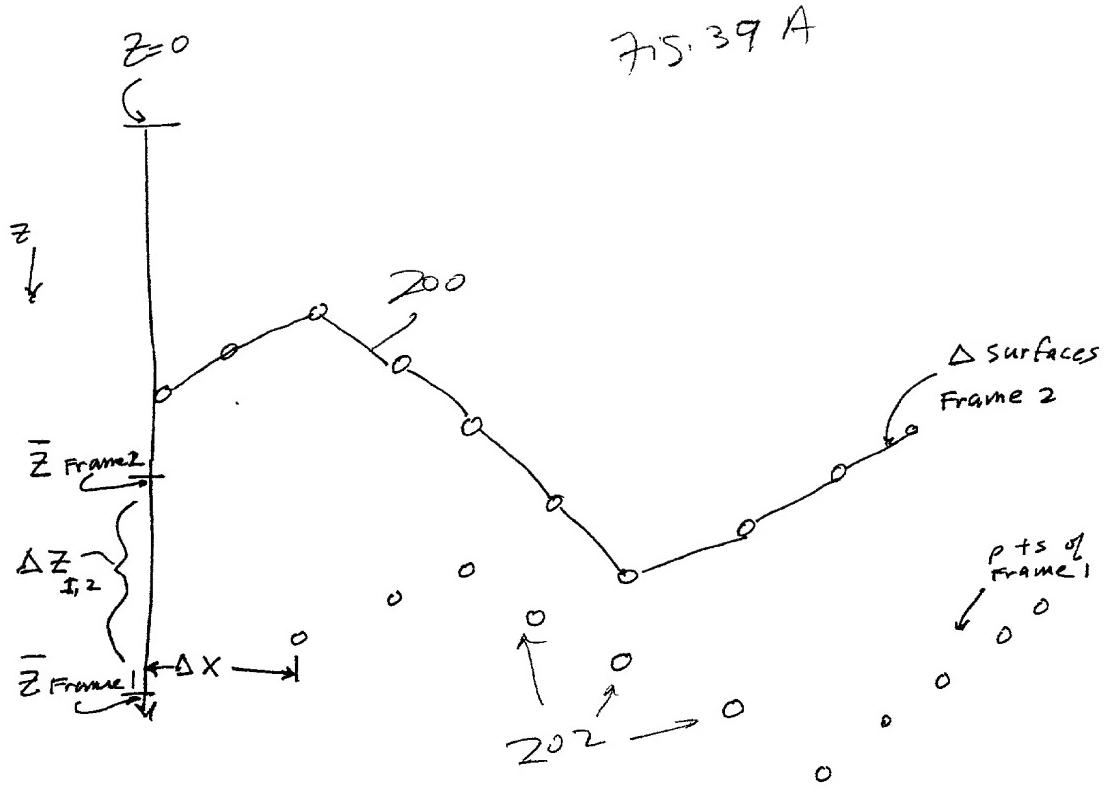


Fig. 38C



Figs. 40A

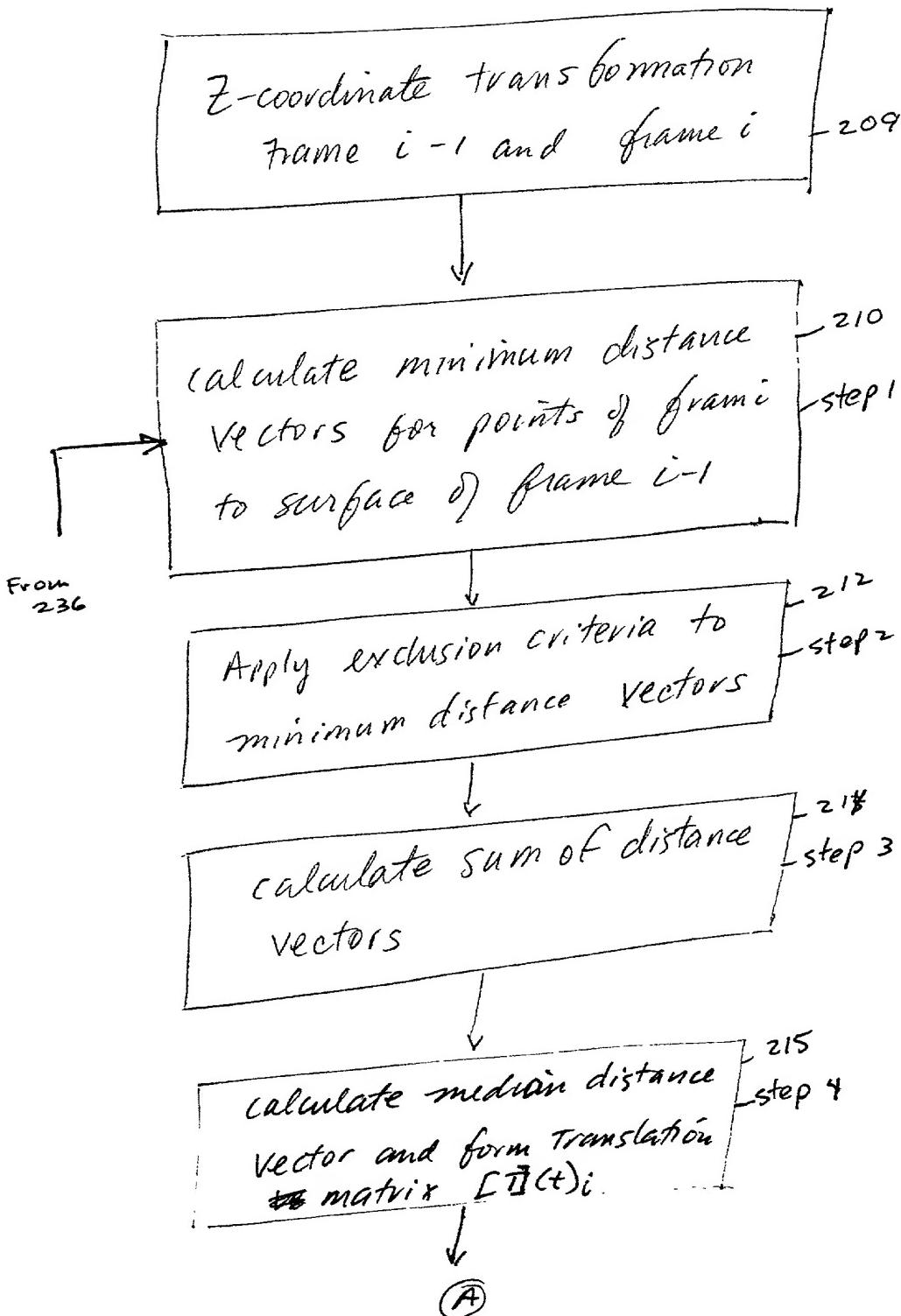
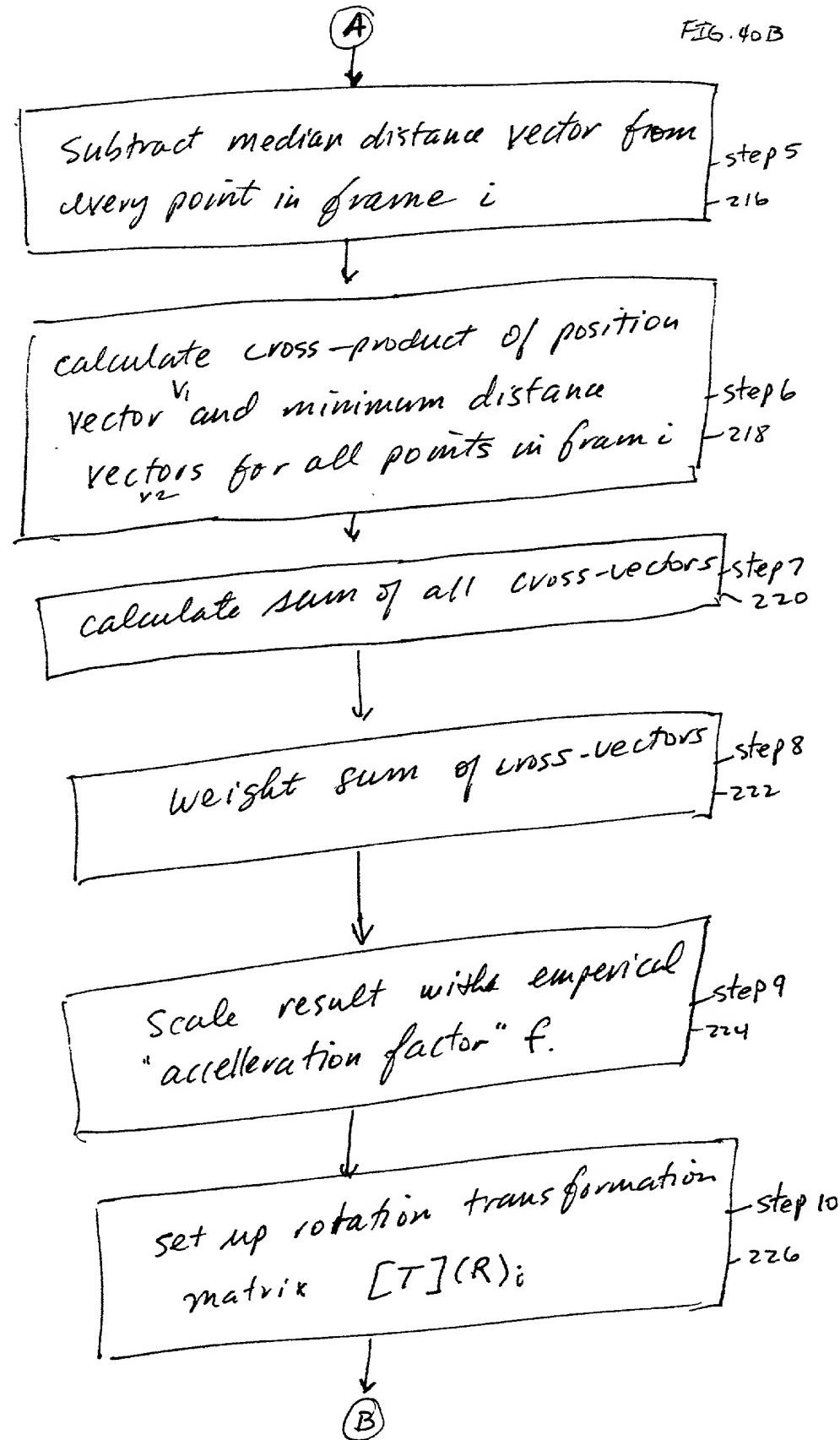
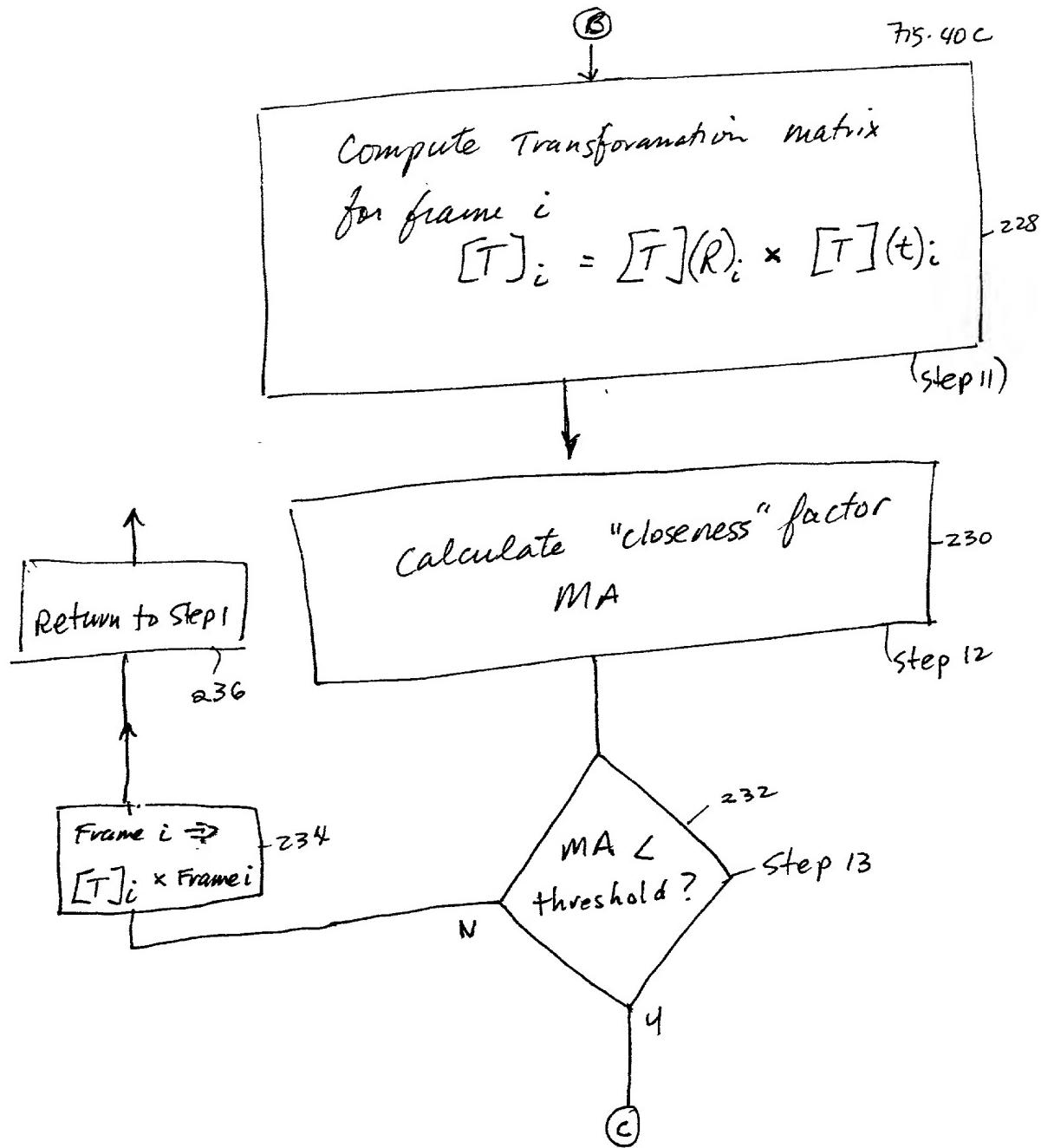


FIG. 40B





Frame to
frame
registration

Fig. 40 D

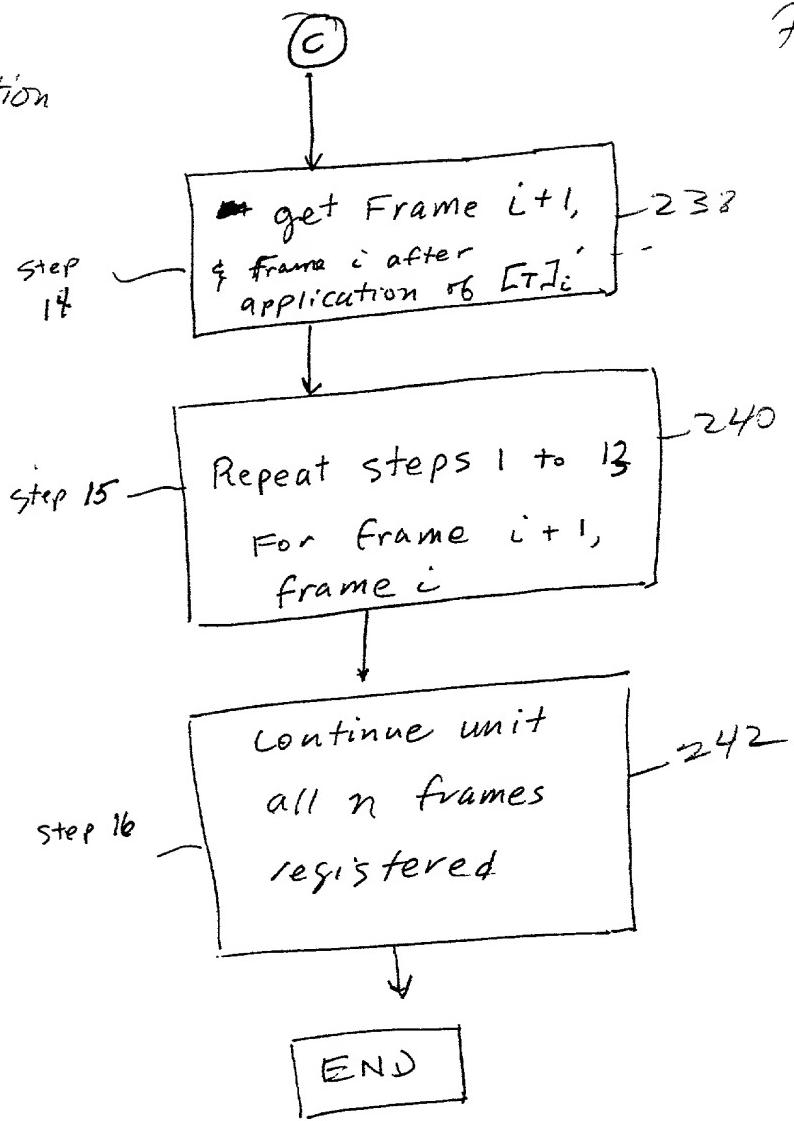


Fig. 41

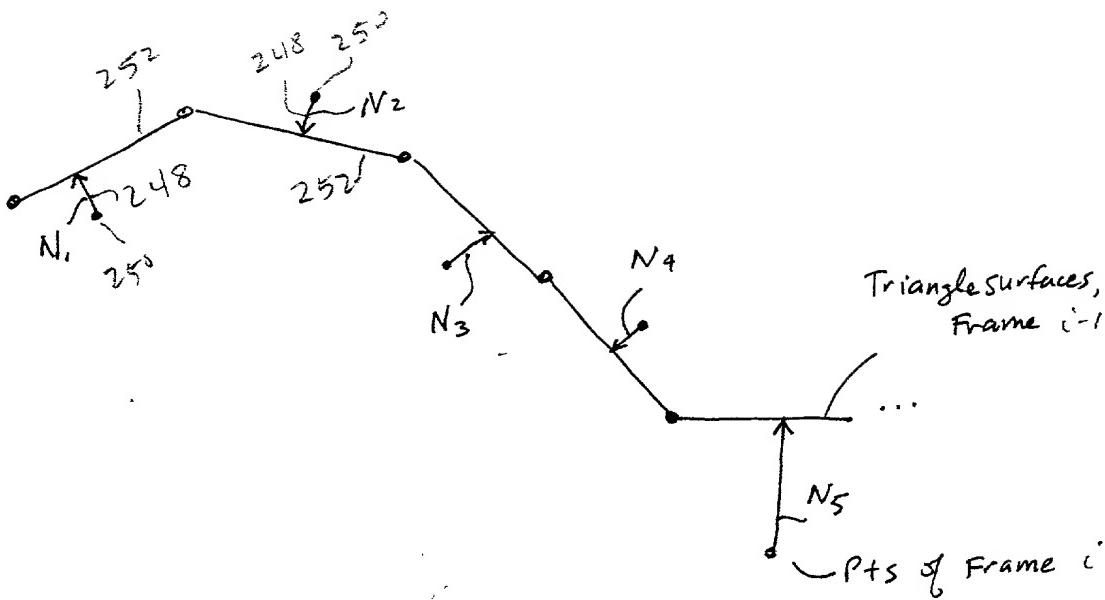


Fig. 42

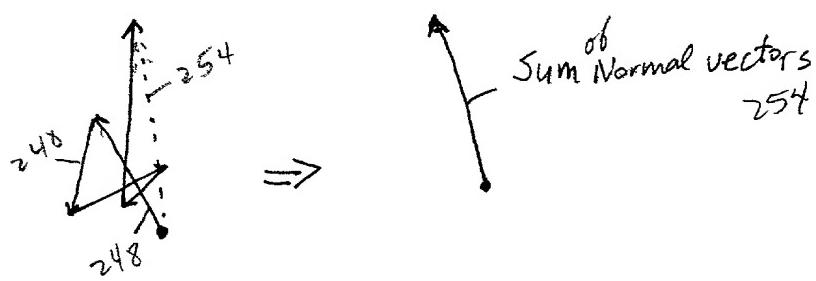


FIG. 43

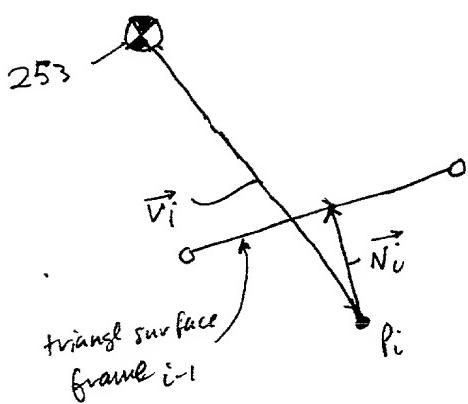
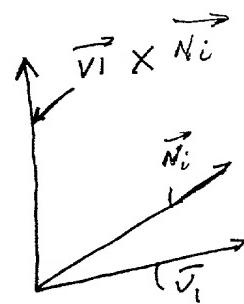


FIG. 44



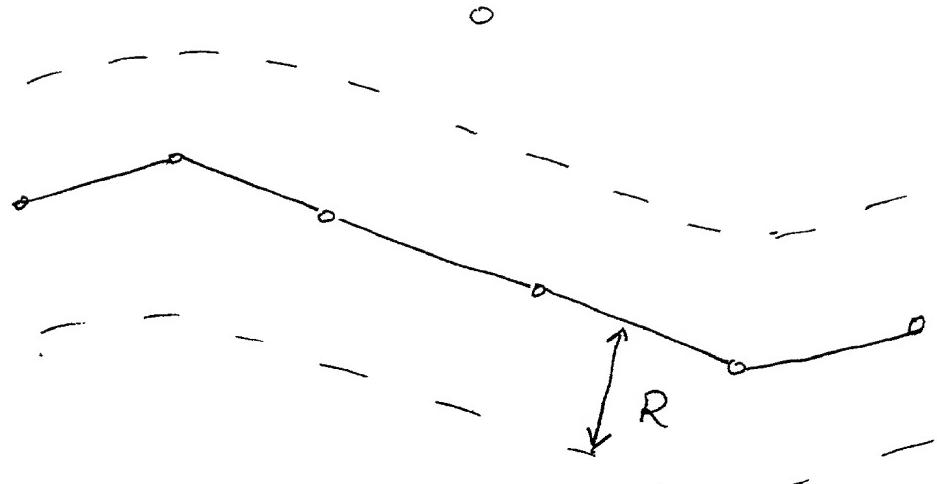
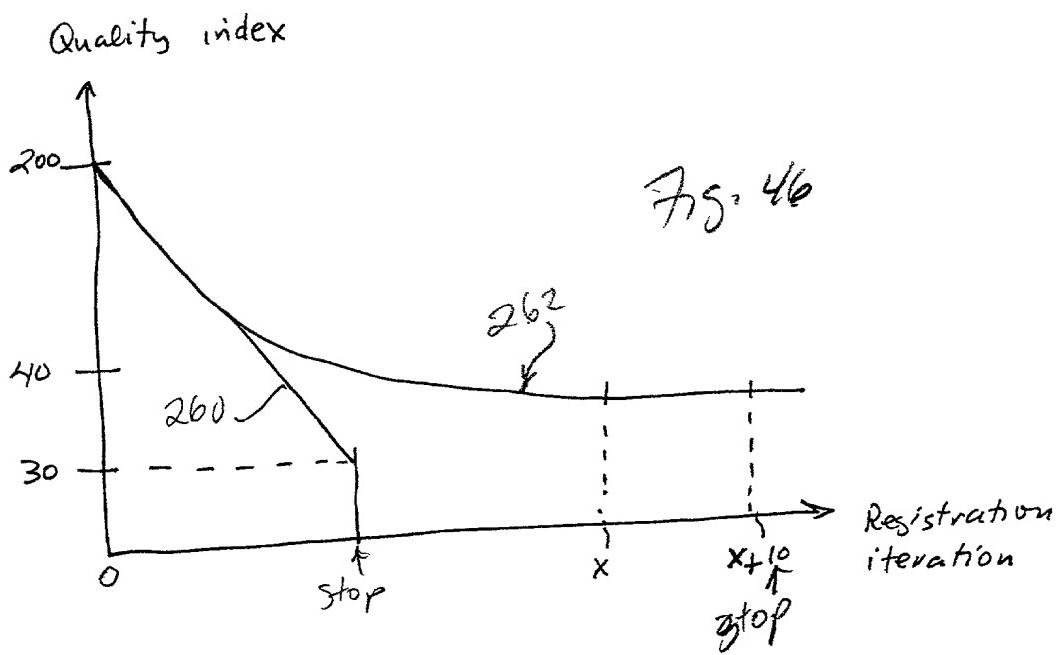
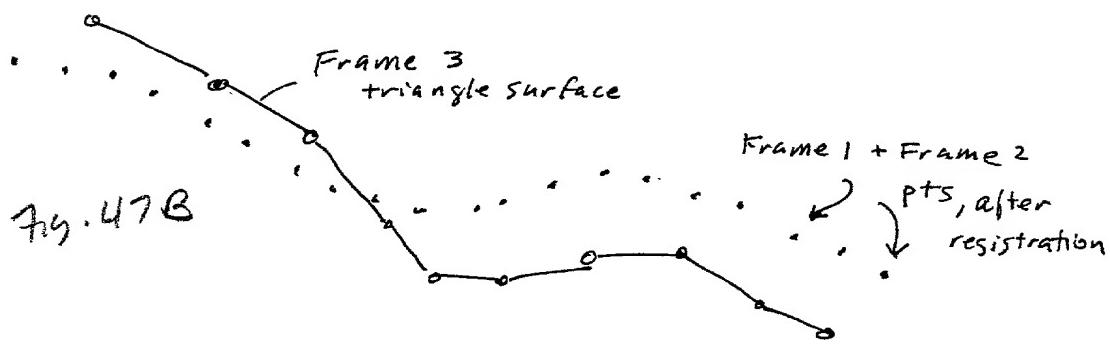
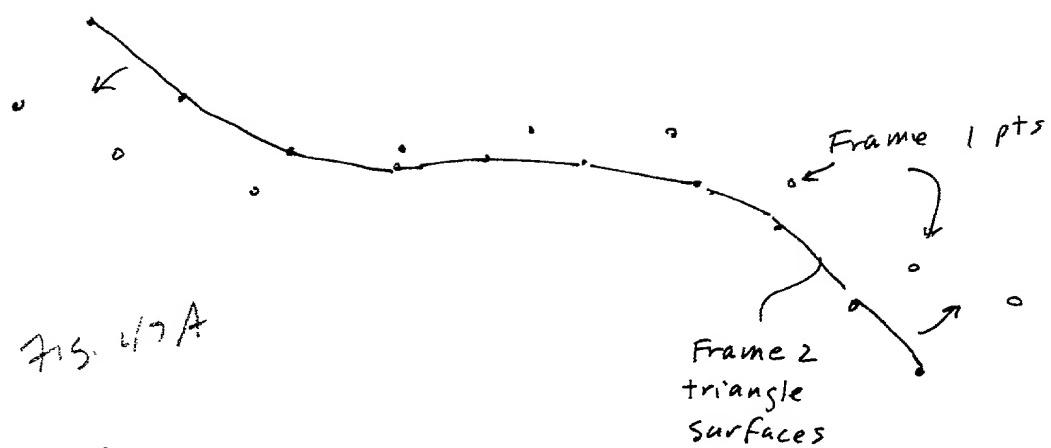


Fig. 45





Cumulative
Registration

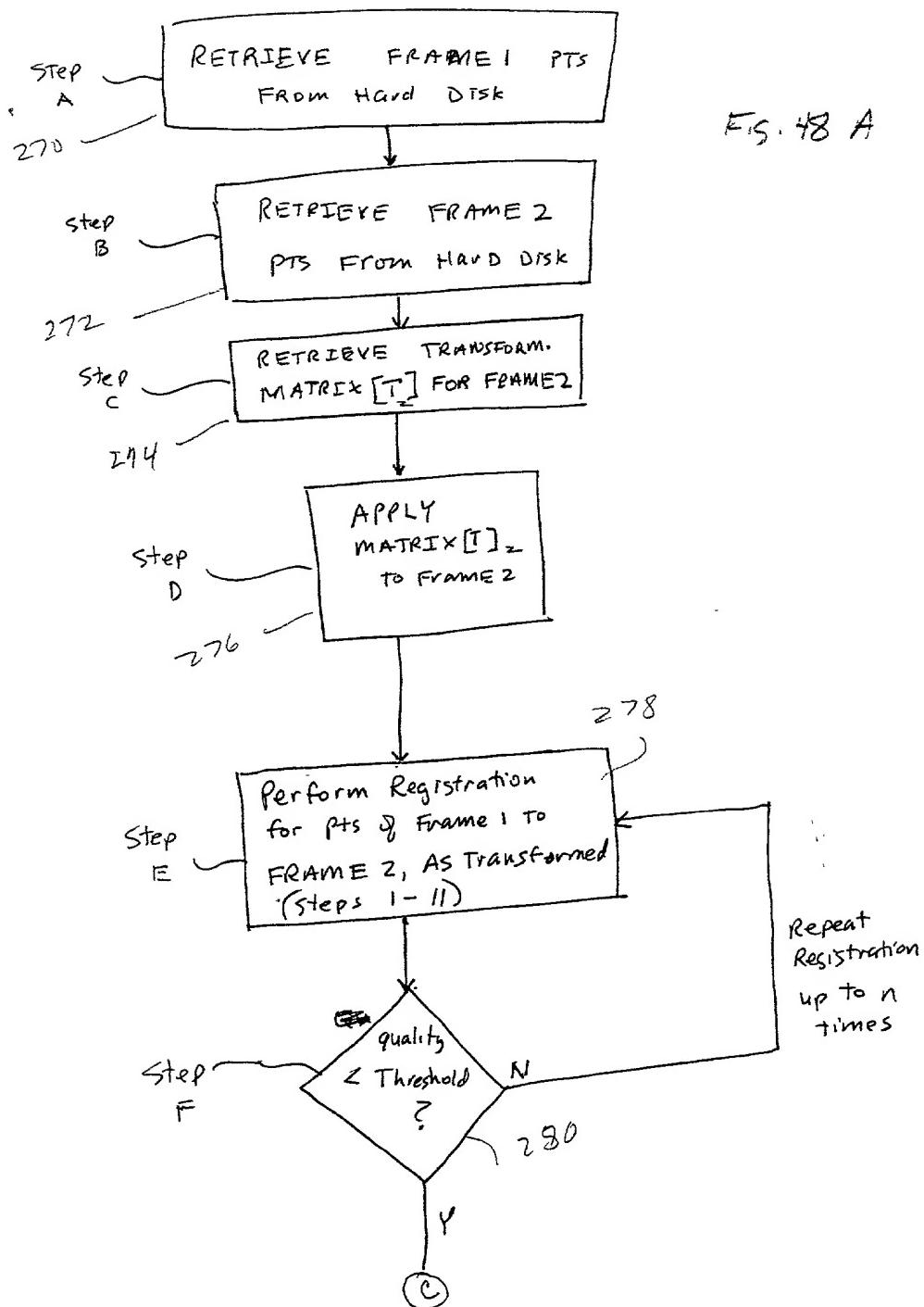
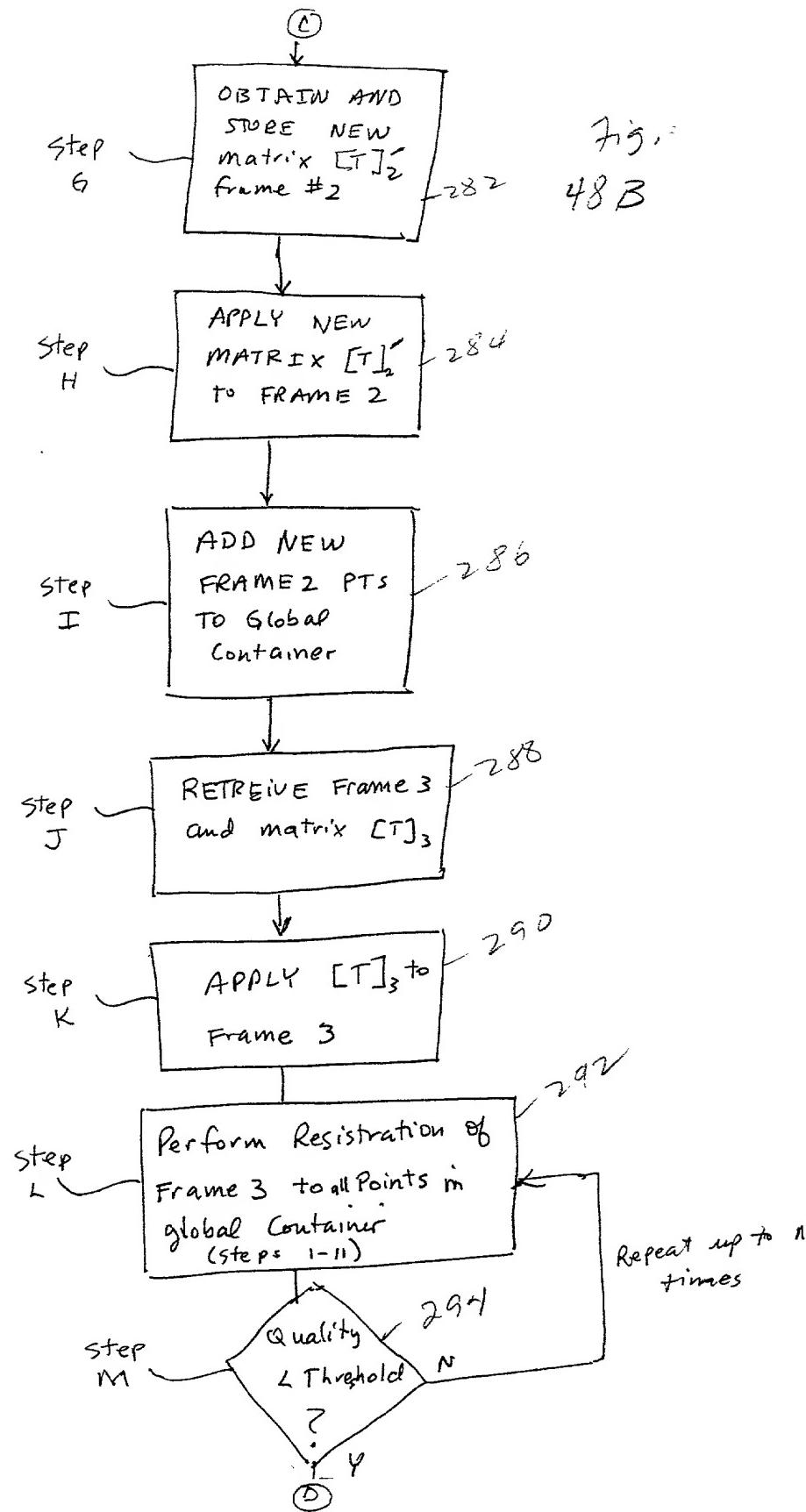


FIG. 48 A

Cumulative
registration



Cumulative
registration

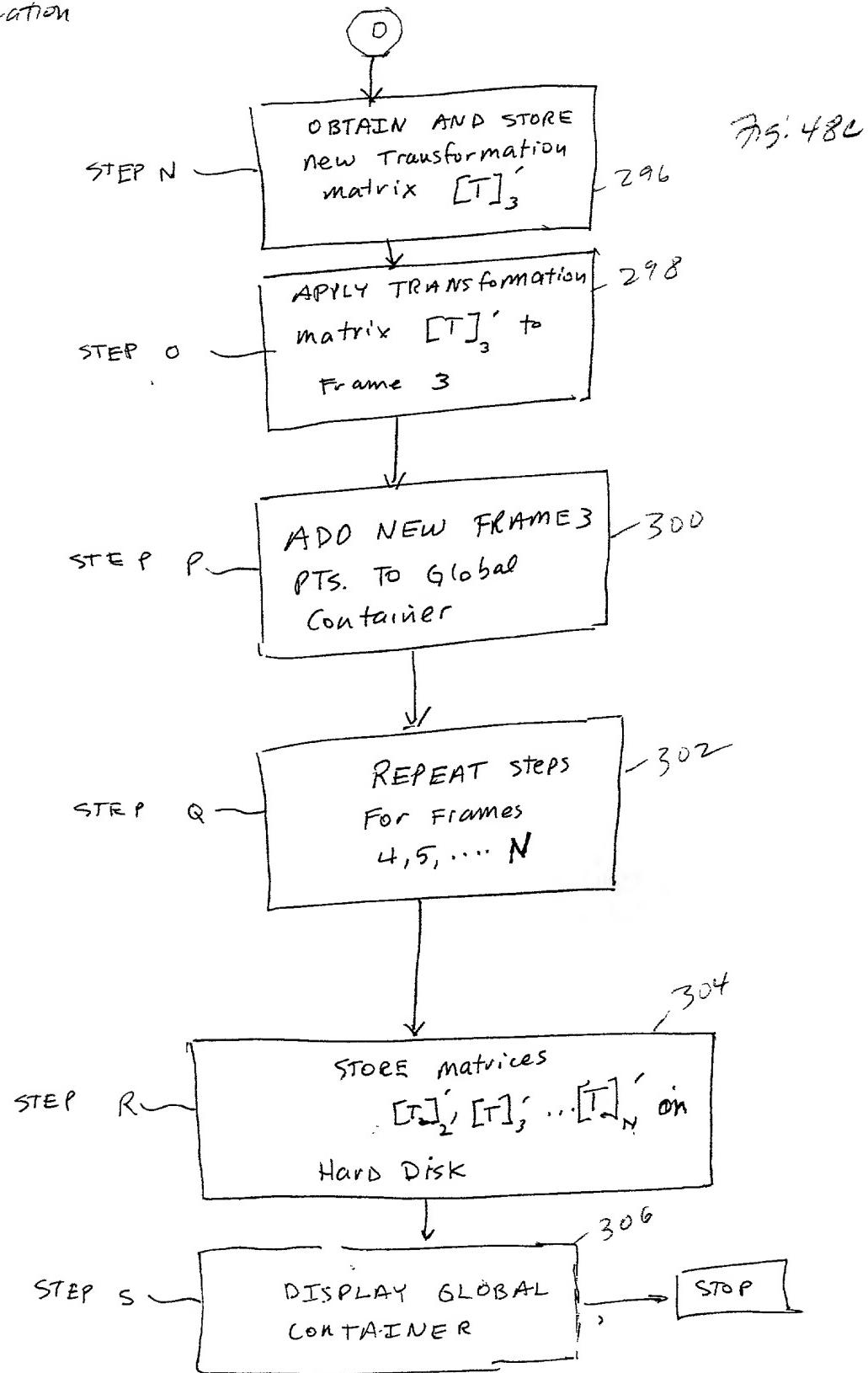


Fig. 48c

Fig. 49

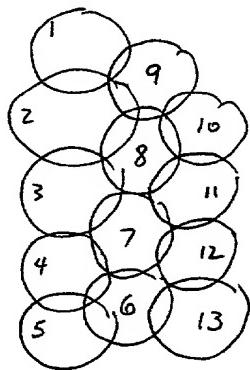
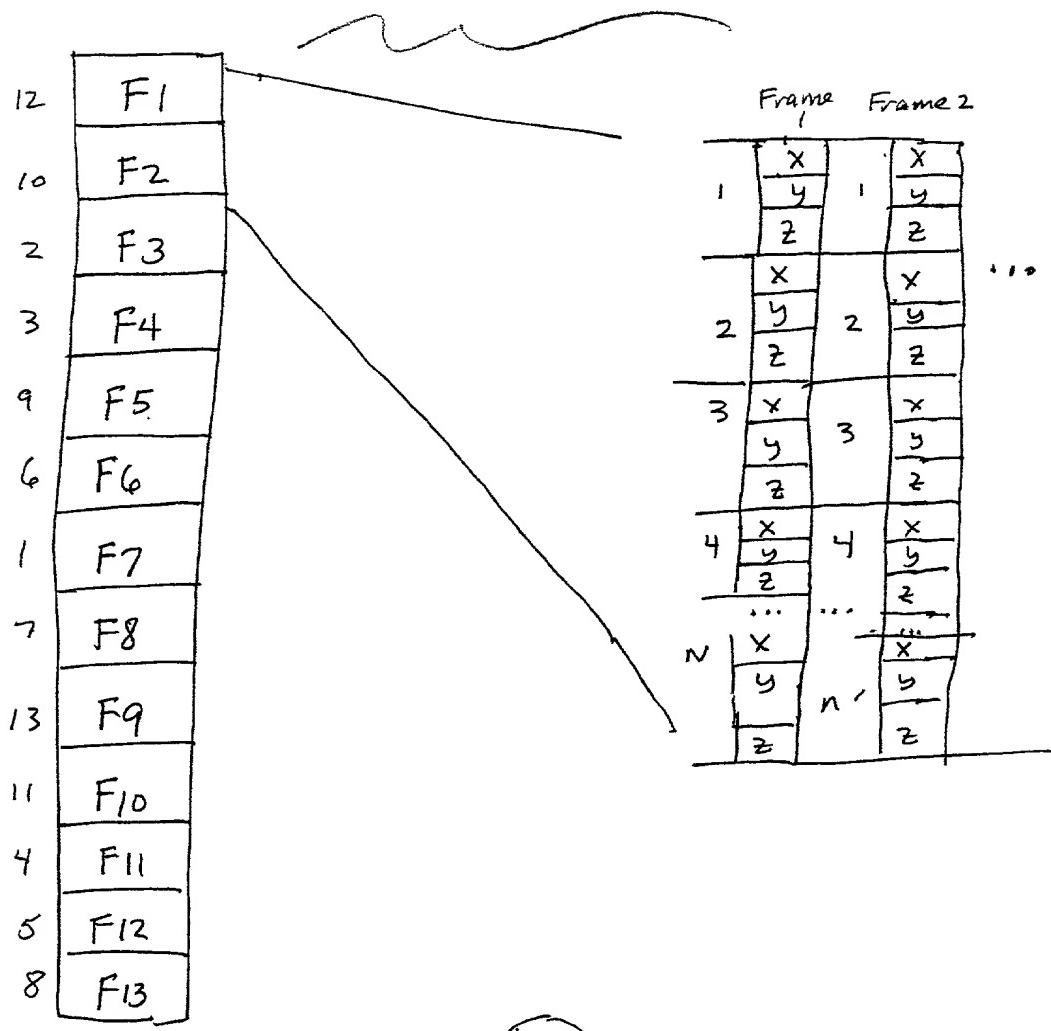


Fig. 50

Fig. 51

F_1	
F_2	14
F_3	10
F_4	
F_5	16
F_6	4
F_7	
F_8	7
F_9	17
F_{10}	16
F_{11}	11
F_{12}	12
F_{13}	

Fig. 52

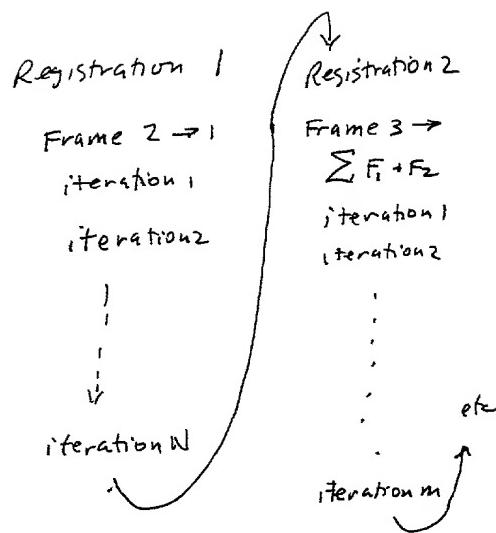
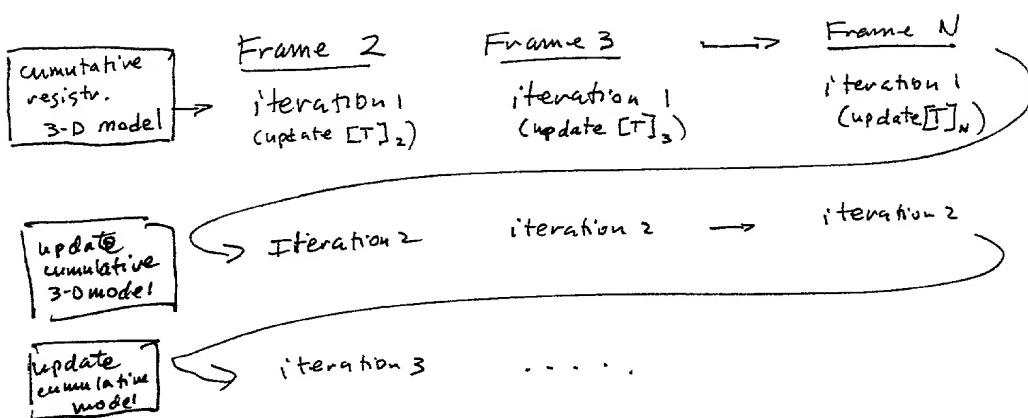


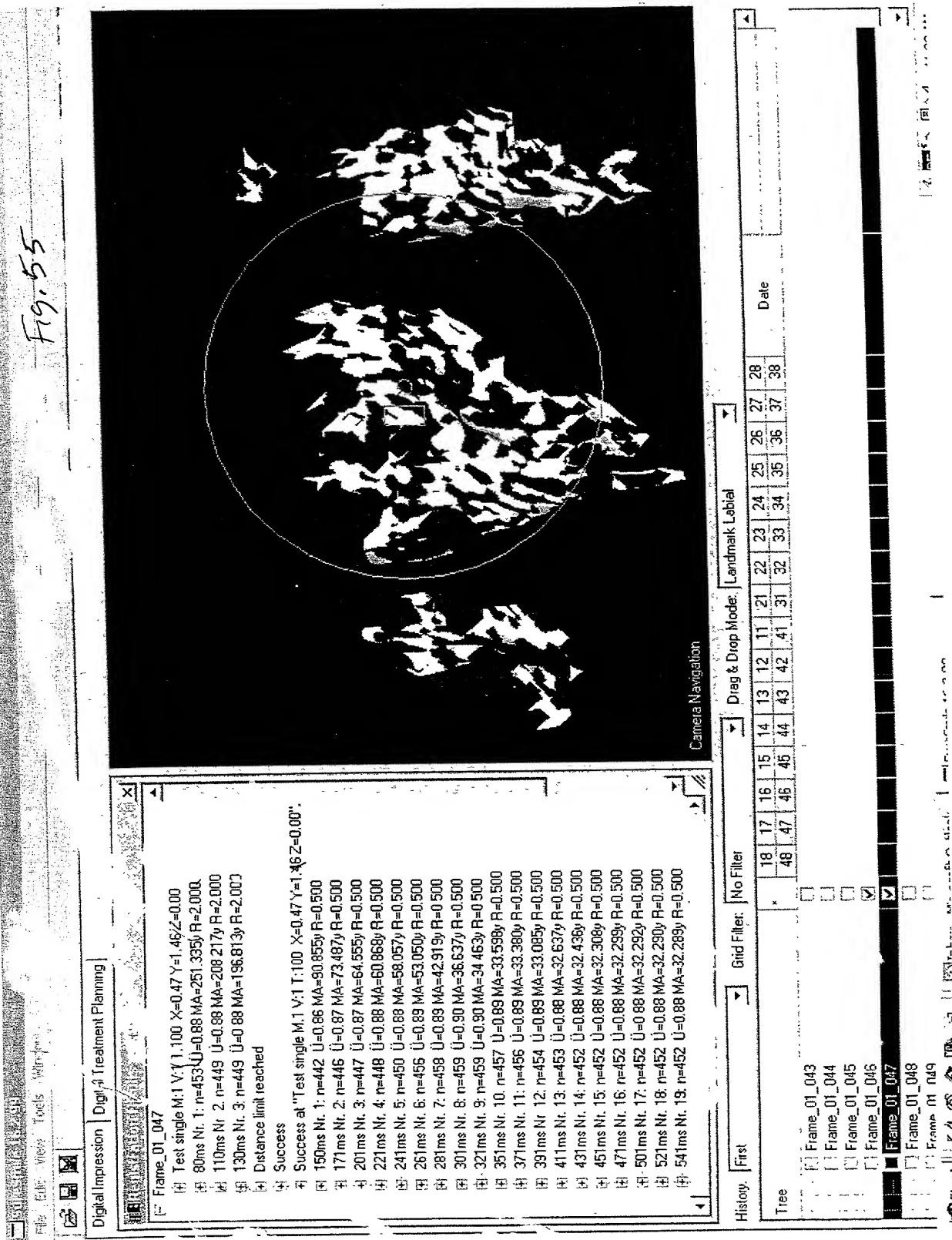
Fig. 53

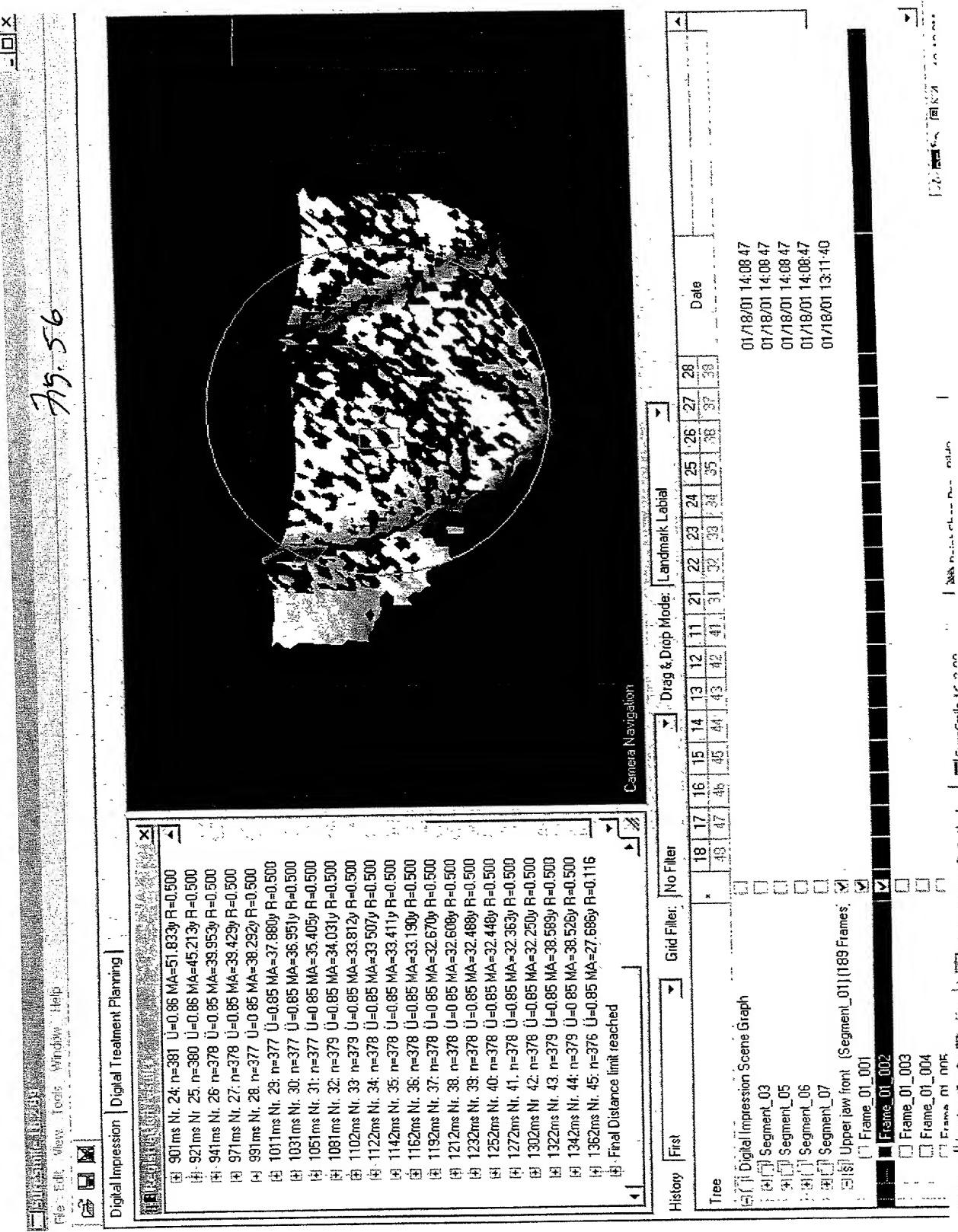


Ft G. 54

<input checked="" type="radio"/> Single	Registration (raw)	Registration (raw + fine)
<input type="radio"/> Cumulative	Distance limit (SYX)	Distance limit (SYX)
X	Stationary point count	Final distance (SYX)
Y	Overlap size	Final distance count
Z	Minimum number of active points (0.1)	Stationary count
	Radius (SYX) [2,000 mm]	Radius (SYX) [0.500 mm]
	Convergence factor [0.100]	Convergence factor [0.010]
	Number of points to register [400]	Number of points to register [400]
	Accelerate factor [1.6]	Accelerate factor [1.3]
general		<input checked="" type="checkbox"/> Combine frames cumulative
<input checked="" type="checkbox"/> Merging		<input checked="" type="checkbox"/> Combine segments cumulative
Radius of sphere inside which is to replace		Minimal distance from edge of base quantity [0.400 mm]
Count of SYX surfaces for animation (0 = off)		Minimal distance from point of base quantity [0.000 mm]
Cell size [16]		Maximal edge length for closing gaps [1.500 mm]
Minimal triangle plane size for closing gaps [0.500 mm]		Maximal edge length for closing gaps [16.000 mm]

Fig. 55







Drag and drop mode
Landmark Label

1

18	17	16	15	14	13	12	11	21	22	23	24	25	26	27	28
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Fig. 57

upper jaw
front (segment) 306

Fig. 58 A

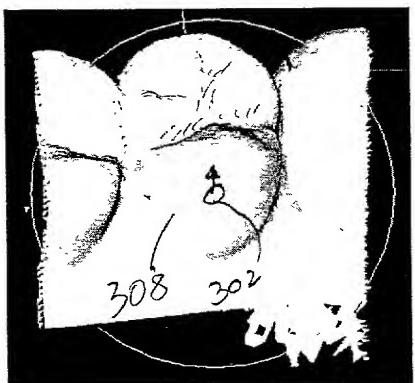


Fig. 58 B

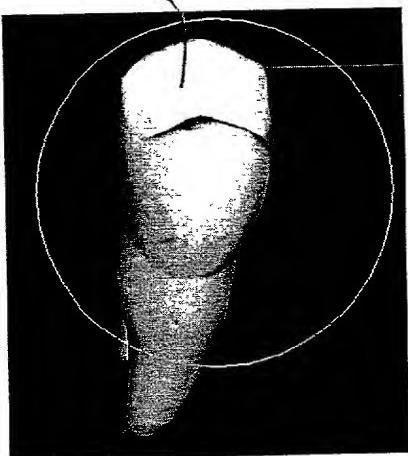


Fig.
58 C

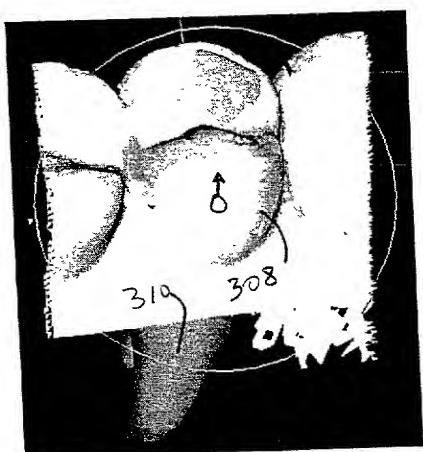


Fig. 58 D

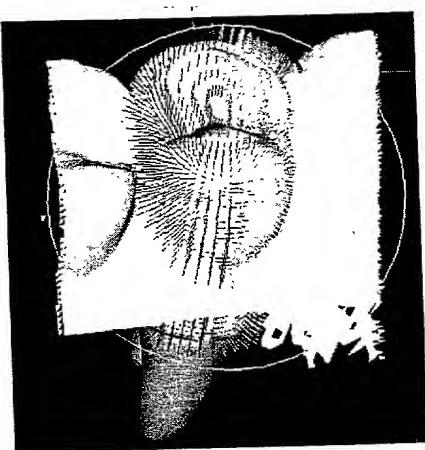
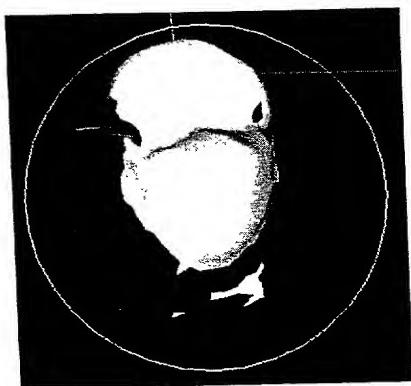
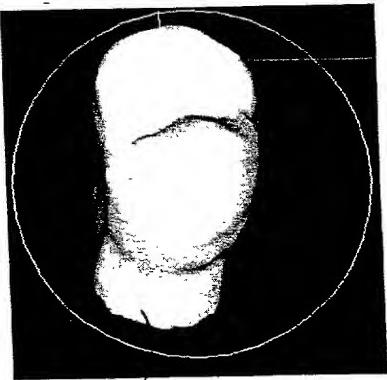


Fig. 58 E



312 Fig. 58 F

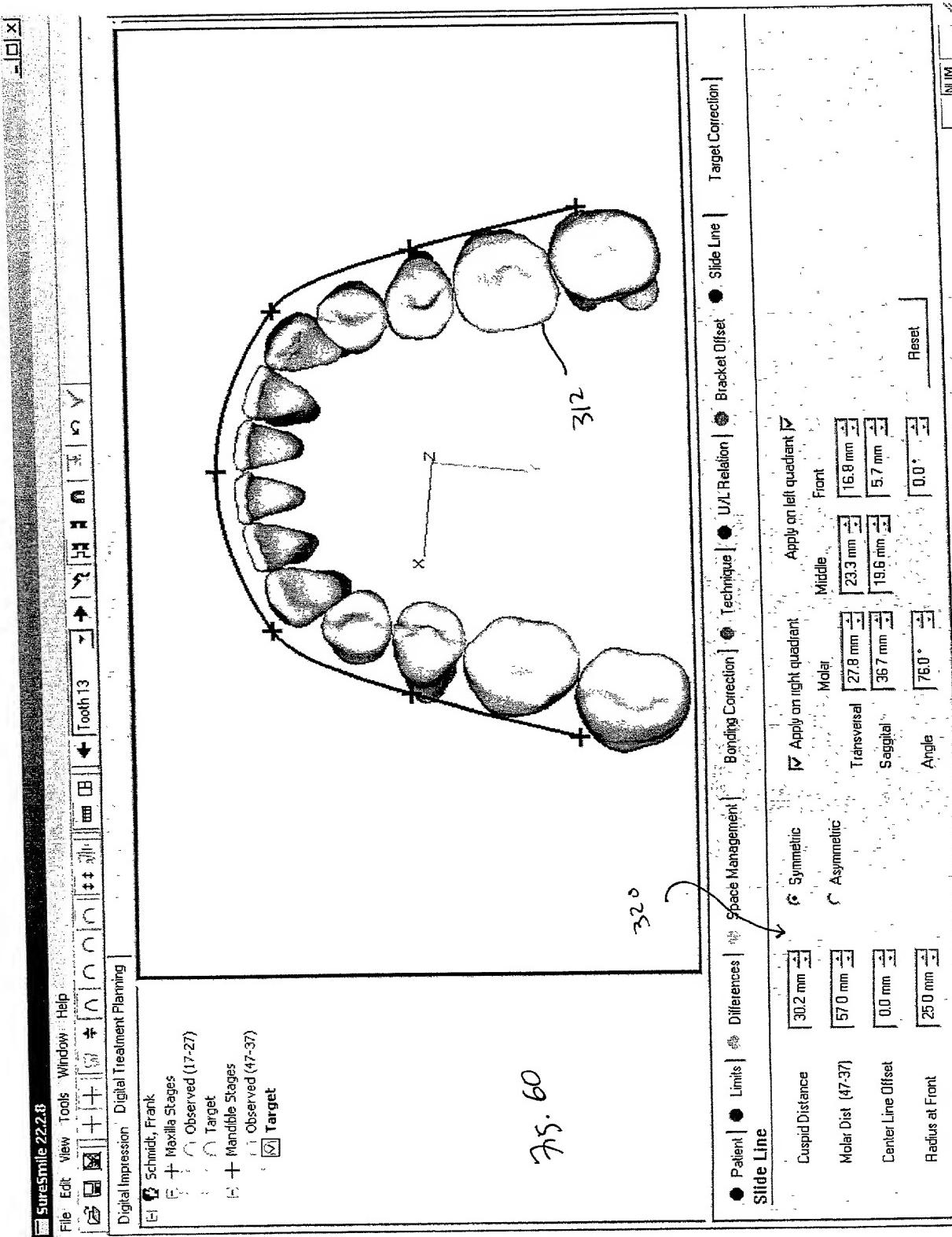


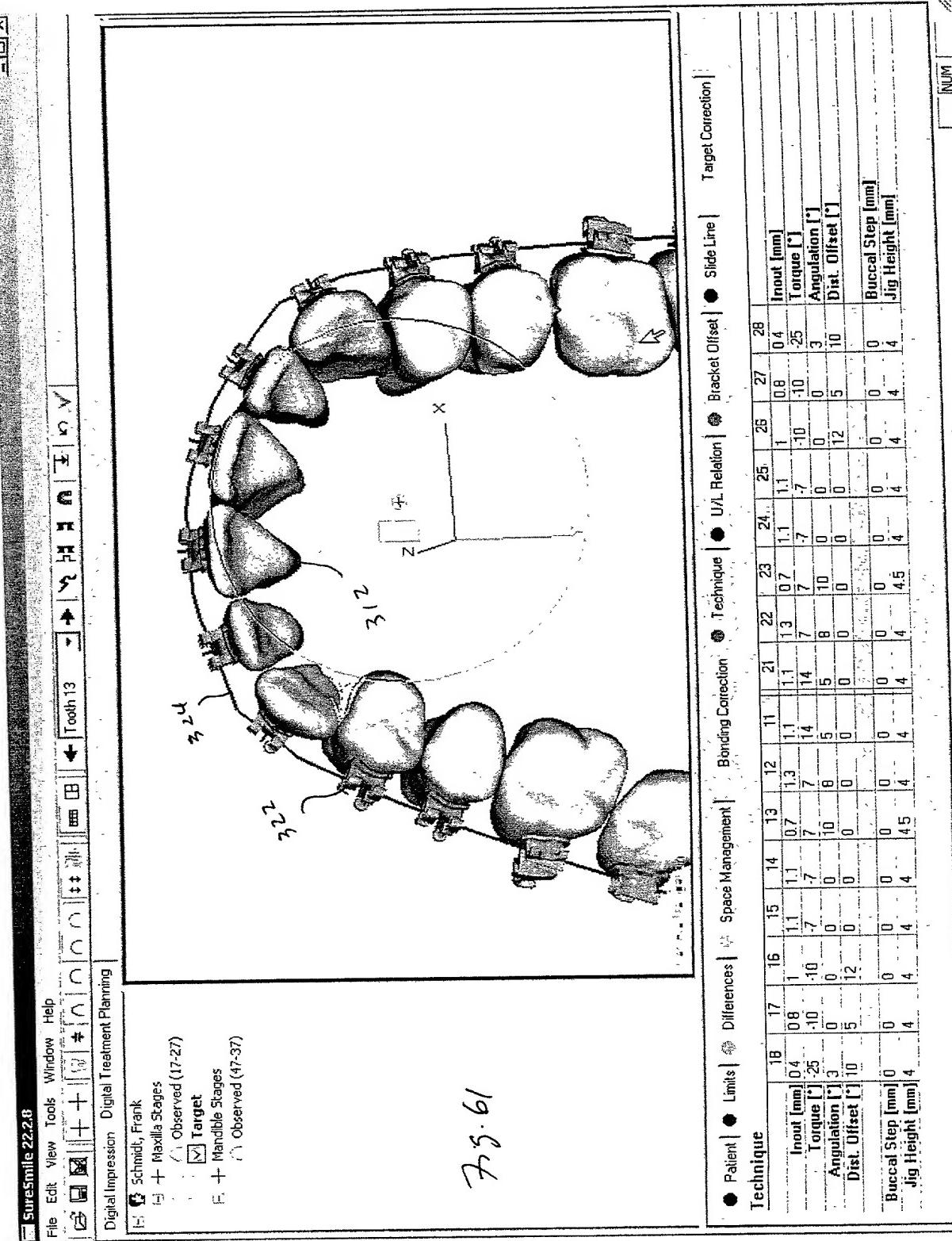
312

-u).



Fig. 59





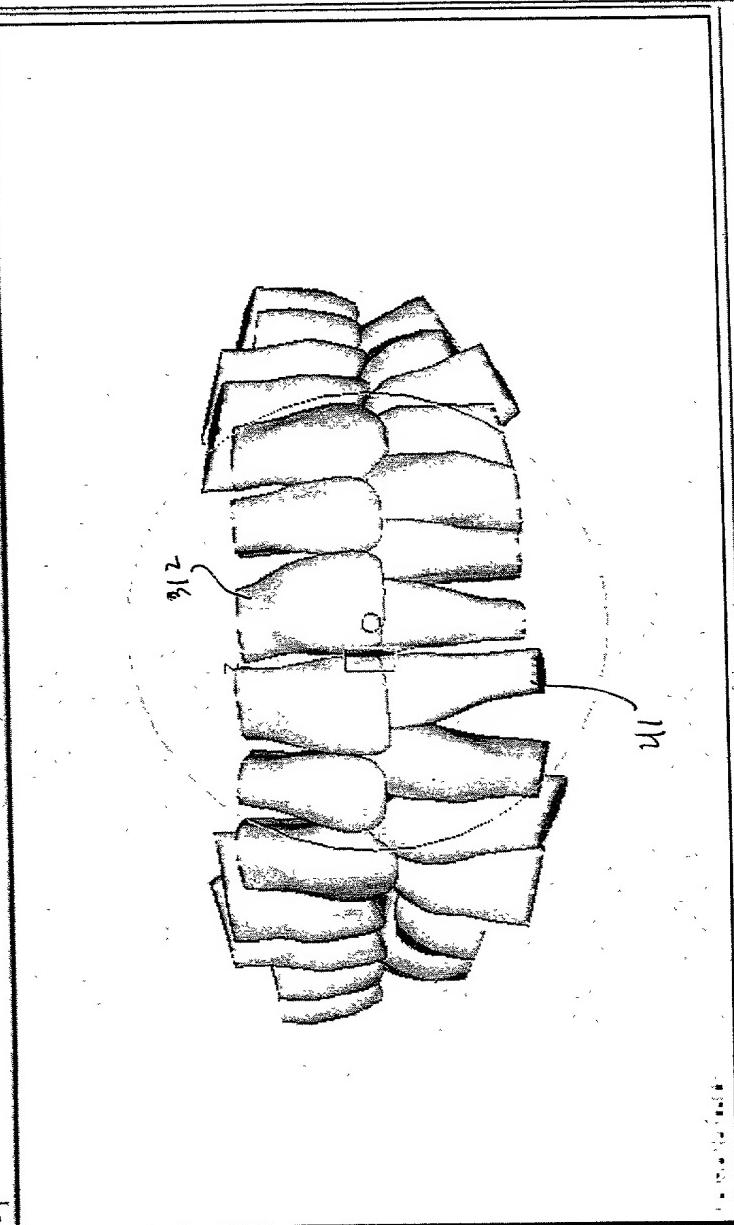
SureSmile 22.2.8

File Edit View Tools Window Help

Digital Impression Digital Treatment Planning

+ Maxilla Stages
 Observed (17x27)
 Target (16x22 St)

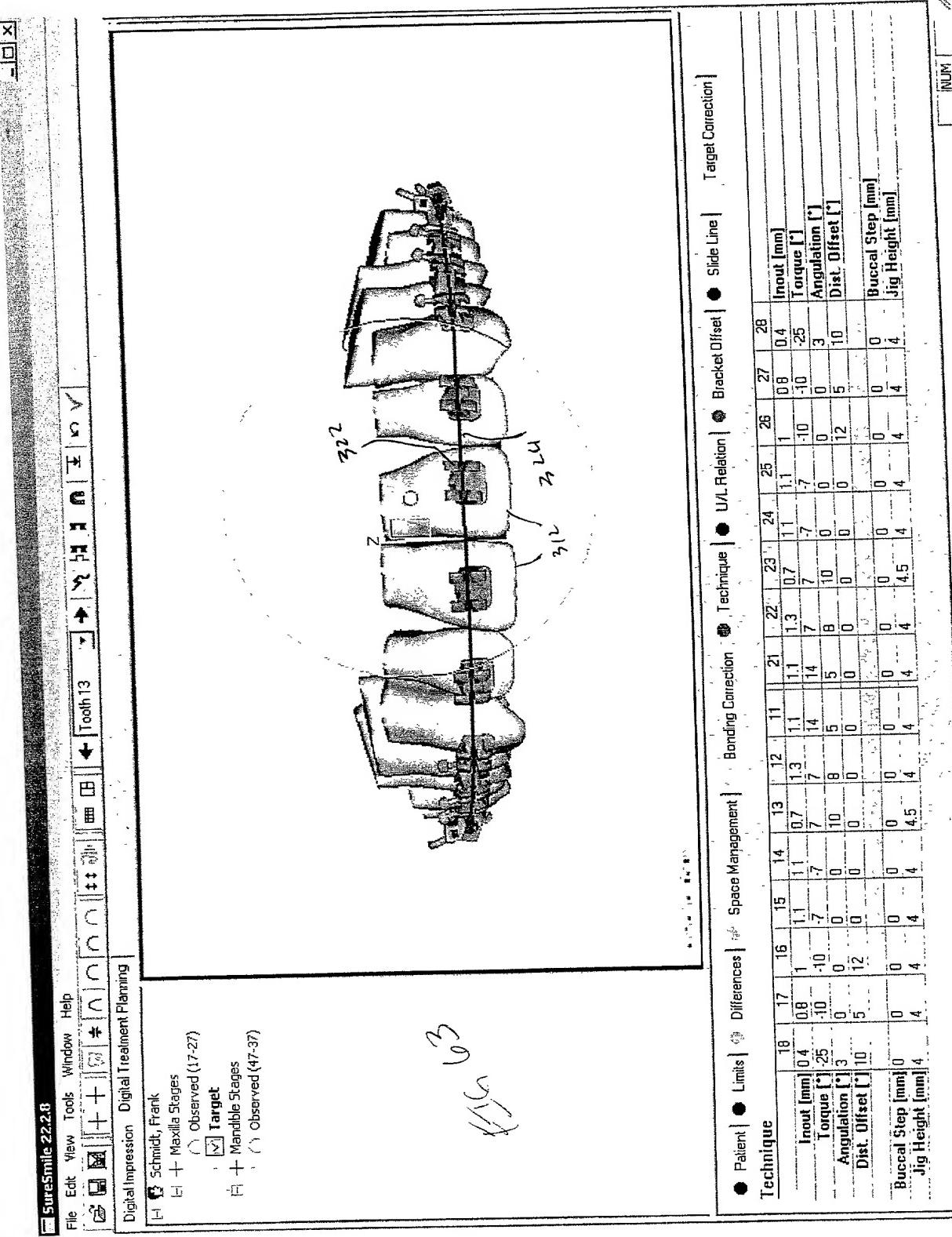
+ Mandible Stages
 Observed (47x37)
 Target (15x22 St)



35. 62

	Patient	Limits	Differences	Space Management	Bonding Correction	Technique	W/L Relation	Bracket Offset	Wire	Forces	Wire Offset					
Observed Stage	48	47	46	45	44	43	42	41	31	32	33	34	35	36	37	38
Current Stage (2)									X	X	X	X	X	X	X	
Target Stage																
Mesial gap size	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Tooth Thickn.																

For Help, press F1



End of dress E1

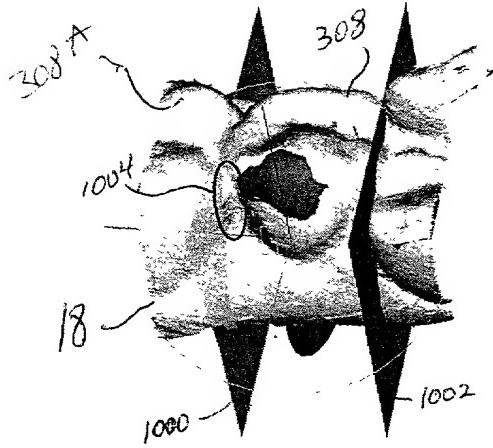


Fig. 64A

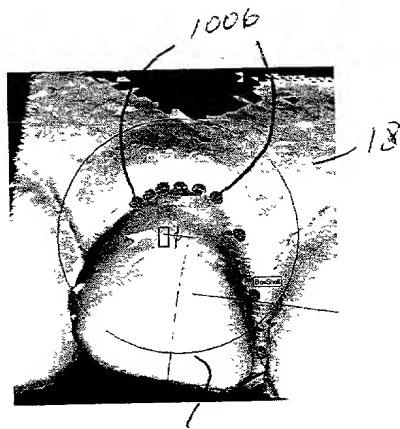


Fig. 64B 308

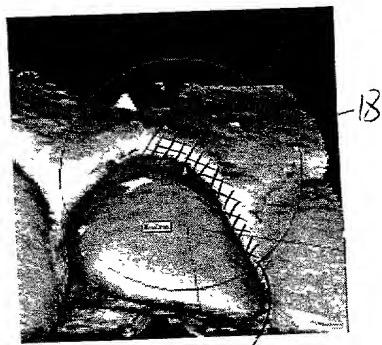


Fig. 64C 1008

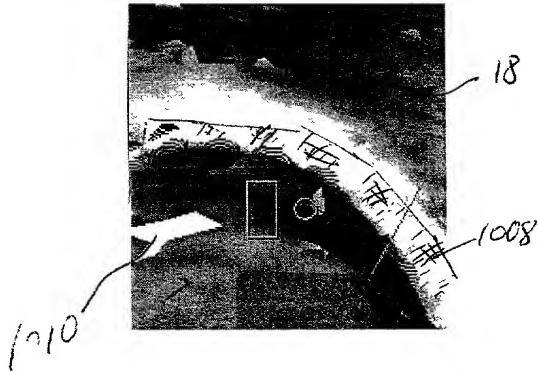


Fig. 64D

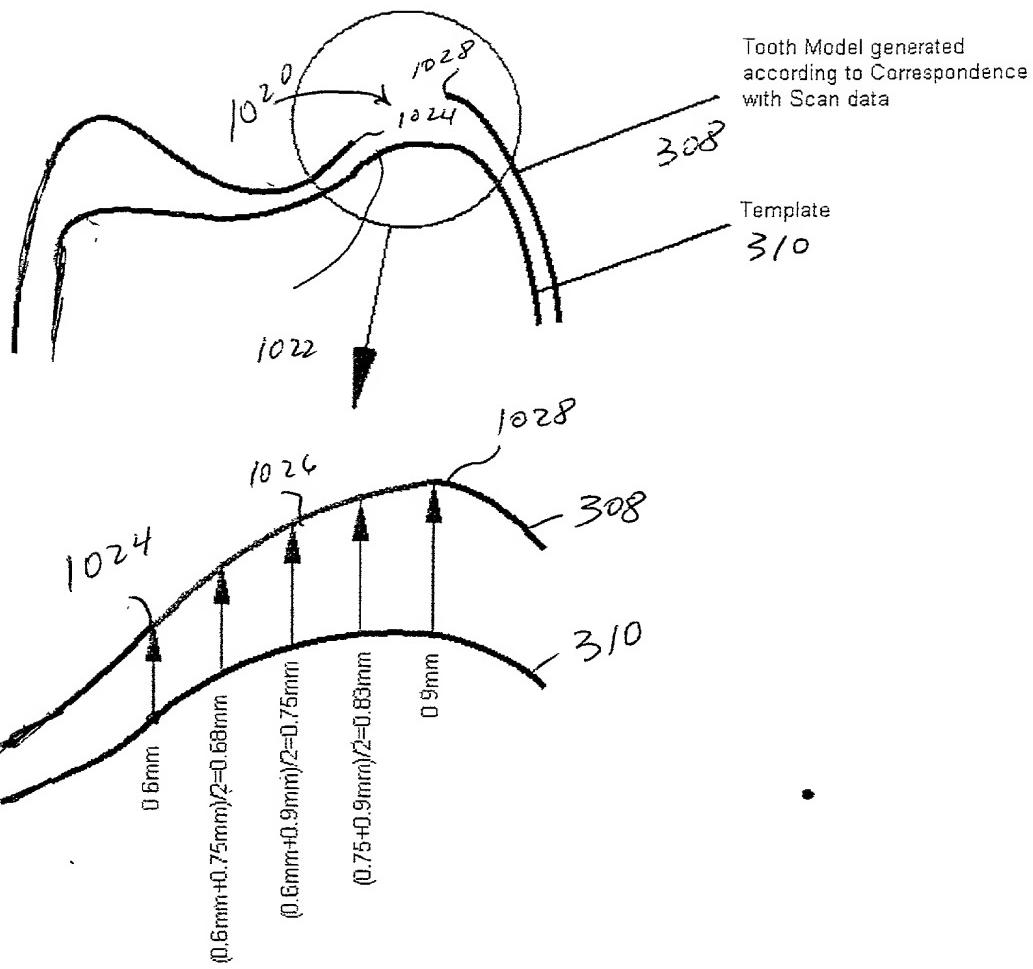


Fig. 65